DOCUMENT RESUME

ED 044 828

EA 003 190

AUTHOR

TITLE

Simon, Kenneth A.; Fullam, Marie G. Projections of Educational Statistics to 1978-79.

1969 Edition.

INSTITUTION

National Center for Educational Statistics

(DHEW/OE), Washington, D.C.

REPORT NO

OE-10030-69

PUB DATE NOTE

70 177p.

AVAILABLE FROM

Superintendent of Documents, U.S. Government

Printing Office, Washington, D.C. 20402 (Catalog No.

HE 5.210:10030-69 \$1.50)

EDRS PRICE DESCRIPTORS EDRS Price MF-\$0.75 HC Not Available from EDRS. Charts, Degrees (Titles), *Educational Finance, *Enrollment Projections, Graphs, Higher Education,

High School Graduates, *School Statistics,

Statistical Data, Student Costs, *Tables (Data),

*Teacher Supply and Demand

ABSTRACT

This publication provides projections of statistics for elementary and secondary schools and institutions of higher education. Projections for the 10-year period from 1969 to 1979 are made for enrollments, graduates, teachers, and expenditures. Based mainly on 1958-59 to 1968-69 data, these projections assume that the past 10 years' trends in enrollment rates, retention rates, class sizes, and per pupil expenditures will continue through 1978-79. Numerous tables, charts, and graphs illustrate study findings. (Author/LLR)



Highlights

If present trends continue, we can expect increases in-

- □ Enrollment in all regular public and private elementary and secondary day schools:
 - From 50.8 million in fall 1968 to 52.3 million in fall 1978.
- Degree-credit enrollment in institutions of higher education:
 - From 6.9 million in fall 1968 to 10.3 million in fall 1978.
- High school graduates from all public and private secondary day schools:
 - From 2.8 million in 1968-69 to 3.8 million in 1978-79.
- Bachelor's and first-professional degrees granted by institutions of higher education:
 - From 755,000 in 1968-69 to 1.1 million in 1978-79.
- □ Full-time and part-time classroom teachers in all regular public and private elementary and secondary day schools:
 - From 2.2 million in fall 1968 to 2.3 million in fall 1978.
- Full-time-equivalent instructional staff for resident degree-credit courses in institutions of higher education:
 - From 373,000 in 1968-69 to 512,000 in 1978-79.
- □ Total expenditures of all regular public and private elementary and secondary day schools:
 - From \$39.8 billion in 1968-69 to \$52.0 billion in 1978-79 (in 1968-69 dollars).
- □ Total expanditures of institutions of higher education:
 - From \$21.3 billion in 1968-69 to \$35.4 billion in 1978-79 (in 1968-69 dollars).





PROJECTIONS OF EDUCATIONAL STATISTICS TO 1978-79

(1969 Edition)

Kenneth A. Simon, *Chief* Reference, Estimates, and Projections Branch

and

Marie G. Fullam, *Analytical Statistician*Division of Statistical Information and Studies
National Center for Educational Statistics

U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE Elliot L. Richardson, Secretary

Office of Education
Terrel H. Bell, Acting Commissioner of Education

National Center for Educational Statistics .

Dorothy M. Gilford, Assistant Commissioner for Educational Statistics

Superintendent of Documents Catalog No. HE 5.210:10030-69

U.S. GOVERNMENT PRINTING OFFICE WASHINGTON: 1970

For sale by the Superintendent of Documents, U.S. Government Printing Office Washington, D.C. 20402 - Price \$1.50



Foreword

This publication provides projections of statistics for elementary and secondary schools and institutions of higher education. The statistics include enrollments, graduates, teachers, and expenditures. These projections supersede the ones shown in *Projections of Educational Statistics to 1977-78*, 1968 edition. They are based mainly on 1958-59 to 1968-69 Office of Education data, and they cover the period 1969-70 to 1978-79 for the United States. Many of these data are available by State for 1968-69 in the Office of Education publication, *Digest of Educational Statistics*, 1969 edition.

The projections shown here assume that the past 10 years' trends in enrollment rates, retention rates, class sizes, and per pupil expenditures will continue through 1978-79. Further information about projected changes and the assumptions on which these are based are shown in the main body of this report. Details of the methodology used in making these projections are given in the appendixes.

Dorothy M. Gilford,

Assistant Commissioner
for Educational Statistics.



CONTENTS	_
	Page
Foreword	iii
Chapter I. Introduction and Summary	1
Chapter II. Enrollment Velma S. Southard and Martin M. Frankel.	13
Chapter III. High School Graduates and Earned Degrees Frances E. Ryan and Nadine C. Brown.	37
Chapter IV. Teachers Alice R. Pool and John F. Beamer, Jr.	51
Chapter V. Expenditures of Educational Institutions Forrest W. Harrison and C. George Lind.	73
Chapter VI. Student Charges by Institutions of Higher Education C. George Lind.	103
Appendix A General Methodology Estimation Methods Classification of Degrees by Field of Study Changes in Degree-Level Definitions Glossary	109 110 133 137 140 141
Appendix B Statistical Tables	147 148
FIGURES	
Figure 1. Enrollment in grades K-12 of regular day schools: United States, fall 1958 to 1978	4 4 5 5 6 6 7 7



TABLES	Page
All Levels	
1. Summary of trends in education: United States, 1958, 1968, and 1978	9
Enrollment	
2. Summary of enrollment in educational institutions, by institutional level and control: United States, fall 1958 to 1978	18
Elementary and Secondary Schools	
3. Enrollment in grades K-8 and 9-12 of regular day schools, by institutional control: United States, fall 1958 to 1978	20 21
Institutions of Higher Education	
 5. Summary of enrollment in all institutions of higher education, by degree-credit status and institutional type: United States, fall 1958 to 1978 6. Total degree-credit enrollment in all institutions of higher education, by sex, 	22
by attendance status, and by institutional control: United States, fall 1958 to 1978	23
sex, by attendance status, and by institutional control: United States, fall 1958 to 1978	24
1958 to 1978	25
1958 to 1978	26
to 1978	27
to 1978	28
1958 to 1978	29 30
14. First-time degree-credit enrollment in all institutions of higher education, by sex, by attendance status, and by institutional control: United States, fall 1958 to 1978	31
15. First-time degree-credit enrollment in 4-year institutions of higher education, by sex, by attendance status, and by institutional control: United States,	20



	Page
16. First-time degree-credit enrollment in 2-year institutions of higher education, by sex, by attendance status, and by institutional control: United States,	
fall 1958 to 1978	33
1958 to 1978	34
institutional control: United States, fall 1958 to 1978	35
4-year institutions of higher education, by sex, by attendance status, and by institutional control: United States, fall 1958 to 1978	36
High School Graduates and Earned Degrees	
Graduates	
20. High school graduates, by sex and by institutional control: United States, 1958-59 to 1978-79	40
Earned Degrees	
21. Earned degrees, by level and by sex of student: United States, 1958-59 to	
1978-79	41
States, 1958-59 to 1978-79	42
24. Earned master's degrees, by field of study: United States, 1958-59 to 1978-79 25. Earned doctor's degrees (except first-professional), by field of study: United	44 46
States, 1958-59 to 1978-79	48
Teachers	
Elementary and Secondary Schools	
26. Classroom teachers in regular elementary and secondary day schools, by institutional control and organizational level: United States, fall 1958 to 1978	55
27. Pupil-teacher ratios in regular elementary and secondary day schools, by institu-	
tional control and organizational level: United States, fall 1958 to 1978 28. Estimated demand for classroom teachers in regular public elementary and	57
secondary day schools: United States, fall 1963 to 1978	5 9
secondary day schools: United States, fall 1963 to 1978	61
by institutional control: United States, fall 1958 to 1978	62



		Page
nsti	tutions of Higher Education	
31.	Full-time and part-time instructional staff positions for resident degree-credit courses in all institutions of higher education, by professional rank: United States, first term 1958-59 to 1978-79	64
32.	Full-time-equivalent instructional staff for resident degree-credit courses in all institutions of higher education, by professional rank: United States, first term 1958-59 to 1978-79	65
33.	Total full-time and part-time professional staff positions in all institutions of higher education, by function: United States, first term 1958-59 to 1978-79.	66
34.	Total full-time and part-time professional staff positions in 4-year publicly controlled institutions of higher education, by function: United States, first	07
35.	term 1958-59 to 1978-79	67
36.	term 1958-59 to 1978-79	68
37.	term 1958-59 to 1978-79	69
20	term 1958-59 to 1978-79	70
	education, by function: United States, first term 1958-59 to 1978-79	71
39.	Estimated demand for full-time-equivalent professional staff in institutions of higher education, by function. United States, first term 1963-64 to 1978-79.	72
	Expenditures	
AII E	_evels	
40.	Expenditures (1968-69 dollars) of regular educational institutions, by instructional level and institutional control: United States, 1958-59 to 1978-79	90
41.	Expenditures (current dollars) of regular educational institutions, by instructional level and institutional control: United States, 1958-59 to 1970-71	86 89
Elen	nentary and Secondary Schools	
42.	Current expenditures of public school systems: United States, 1958-59 to 1978-79	91
43.	Current expenditures for salaries of instructional staff in regular public elementary and secondary day schools: United States, 1958-59 to 1978-79	93
44.	Construction of public elementary and secondary school classrooms and capital outlay: United States, 1958-59 to 1978-79	95
45.	Expenditures for interest by public elementary and secondary school systems: United States, 1958-59 to 1978-79	96
nsti	tutions of Higher Education	
	Expenditures from current funds and total current expenditures (1968-69 dollars) by institutions of higher education: United States, 1958-59 to 1978-79.	97
47.	Expenditures from current funds and total current expenditures (current dollars) by institutions of higher education: United States, 1958-59 to 1970-71	100



· ·	
	Page
48. Capital outlay of institutions of higher education: United States, 1958-59 to	
1978-79	. 102
Student Charges	
Institutions of Higher Education	
 49. Estimated average charges (1968-69 dollars) per full-time undergraduate residen degree-credit student in institutions of higher education, by institutional type and control: United States, 1958-59 to 1978-79 50. Estimated average charges (current dollars) per full-time undergraduate residen degree-credit student in institutions of higher education, by institutional type 	e . 104 t
and control: United States, 1958-59 to 1970-71	
APPENDIX A	
General Methodology	
Table A-2. Methodology (ch. III)	. 118
Table A-3. Methodology (ch. IV)	. 123
Table A-4. Methodology (ch. V and ch. VI)	. 127
Estimation Methods	
Classification of Degrees by Field of Study	. 137
Glossary	. 140 . 141
	. 141
APPENDIX B	
Statistical Tables	
Table B-1. School-age population (U.S. Census projection series B, C, and D), ages 5	
6, 7, and 5-13 years: United States, 1958 to 1979	
Table B-2. High-school- and college-age population: United States, 1958 to 1979	. 149
Table B-3. Ratios of population series B and population series D to population series	
C, by age group: United States, 1971 to 1979	6
control: United States, 1958 to 1978	. 151
based on U.S. Census population projection series D, by institutional	. I
control: United States, 1958 to 1978	. 152
Table B-6. Total degree-credit enrollment in all institutions of higher education, by sex: United States and outlying areas, fall 1958 to 1978	, . 153
Table B-7. Earned degrees, by level and sex of student: United States and outlying	j
areas, 1958-59 to 1978-79	154
Table B-8. Constant dollar index	. 155
Table B-9. Estimated receipts of regular and "other" educational institutions, by	
institutional level and control, and by source: United States, 1957-58 to 1965-66 and 1966-67	156



		Page
Table B-10.	Federal funds for education and related activities: Estimated obligations for fiscal years 1962 to 1967; and estimated outlays for fiscal years 1968	
	to 1970	159
Table B-11.	Office of Education expenditures, by legislative program: Fiscal years	164



CHAPTER I

Introduction and Summary

This is the sixth in a series of annual projections of data on education revised each year in order to take account of current information and emerging trends.

This 1969 edition incorporates, for the first time since 1965, separate data for degree-credit and nondegree-credit enrollments. It also makes use of fall 1967 data on enrollments for advanced degrees from the first complete report giving this enrollment by sex. And it includes data for 2 later years of earned degrees than were available when the 1968 projections were made.

Although much of the new data did not change the projections significantly, those for degrees, especially at the master's and doctor's (except first-professional) levels, showed increases far beyond any foreseen from the 1957-58 to 1965-66 trends. The increase shown for master's degrees resulted partly from a change in Office of Education definitions in 1965-66. This change transferred a large number of degrees from the bachelor's and first-professional classification to master's, causing a large proportionate increase in master's degrees while affecting the larger numbers in the bachelor's and first-professional series only slightly.

New projections added this year include first-time degree-credit enrollment by attendance status, nondegree-credit enrollment by sex, and nondegree-credit enrollment in 4-year and 2-year institutions of higher education. These data, even though frequently requested, have not been included in the past because of difficulties in estimation. New data collected in fall 1968 made estimation possible for this 1969 edition.

The statistical universe from which the enrollments and other educational data shown in this report were drawn consists of (1) the public grade schools which report to their respective State departments of education, (2) the nonpublic grade schools included in the Nonpublic School Directory of the U.S. Office of Education, and (3) the institutions of higher education meeting the requirements for inclusion in the Higher Education Directory of the U.S. Office of Education. The coverage is the 50 States and the District of Columbia and excludes extension centers of U.S. educational institutions abroad.

The published sources of the data, usually taken from U.S. Office of Education surveys, are noted in each table. The tables are grouped by subject matter—together with detailed explanations of inclusions, exclusions, and descriptions of the data and projection methods—in separate chapters on enrollments, graduates, teachers, expenditures, and tuition and other charges.

Footnotes to the tables state the assumptions on which the projections are based, with references to tables and other data in the appendixes giving detailed technical explanations of estimation and projection methods. The appendixes also include selected details of classification changes, a glossary of terms, and a number of auxiliary tables.

The projections are based, essentially, on trends in enrollment rates of the population over the past 10 years and on the projected population groups from which enrollment will be drawn in the next 10 years. The increases or decreases of the enrollment and other rates are shown in appendix A, tables A-1 through A-4; and the projections of population of the typical age at each level of enrollment are shown in appendix B, tables B-1 and B-2. (The population data used are those projected by the U.S. Bureau of the Census and reported in its population series P-25.3)

³U.S. Department of Commerce, Bureau of the Census, Current Population Reports, Population Estimates: Summary of Demographic Projections, Series P-25, No. 388, March 14, 1968.



U.S. Department of Health, Education, and Welfare, Office of Education, Nonpublic School Directory, 1965-66: Elementary and Secondary Schools, U.S. Government Printing Office, Washington, D.C., 1968.
 U.S. Department of Health, Education, and Welfare, Office of Education, Education Directory, 1968-1969, Part 3: Higher Education, U.S. Government Printing Office, Washington, D.C., 1968.

The enrollment rates have been growing steadily over the past 10 years, but some population groups have been growing less rapidly or beginning to drop in size. The interaction of these two projection components determines, directly or indirectly, the numbers expected in the different areas of education. The numbers expected are shown graphically for the principal areas of education in figures 1 through 9 and, in more detail, with percentage increases from 1958 to 1968 and from 1968 to 1978, in table 1.

A summary of major trends past and projected, shown in this report, follows.

Major trends in education

(1)	Population is increasing less rapidly or declining.	
	Percent	change
	1958 to 1968	1968 to 1978
	Elementary school age	-5
	Secondary school age	11
		18
	Higher education undergraduate age 59	10
(2)	The high school graduation rate is increasing.	
	Graduates as percer	nt of 18-year-olds
	1958-59	4
		7
	1978-79	8
(3)	The proportion of high school diplomas awarded to boys is increasing and exceed 50 percent before 1979.	d is expected to
	Boys as percei	nt of all graduates
	1958-59	48.2
	1968-69	49.8
	1978-79	50.6
(4)	Proportionately more people are earning college degrees.	
		rees as percent of age population
	1958-59	17.5
	1968-69	22.0

(5)

A larger proportion o	it degrees earned ar	e ac ivanced degrees.
Master	's as percent of total	Doctor's (except first-professional) as percent of total
1958-59	15.6	2.0
1968-69	19.4	2.7
1978-79	24.9	3.8

The proportion of bachelor's and first-professional degrees awarded to women is increasing.

Women as percent of bachelor's and first-professionaldegree recipients

1958-59 .																	33.5
1968-69.																	42.5
1978-79 .																	46.8



(7)	Degree-credit enrollment in 2-year instit	utions is g	rowing faster th	an in 4-year	institutions.
		Degree-cr	edit students in 2- of all degree-c	•	•
	1958		11.	.9	
	1968		18.	.6	
	1978		21.	.1	
(8)	The ratio of public elementary and seco	ndary stu	dents to classroo	m teachers	is declining.
			Ratio of stud	ents to classr	oom teachers
			Total	Elementary	Secondary
	1958		26.1	28.7	21.7
	1968		23.1	25.4	20.3
	1978	• • • • • •	22.4	24.5	20.2
(9)	The cost of educating elementary and se	condary st	tudents is increa	sing.	
		Cu	rrent expenditure attendance	per Pupil in (1968-69 doll	
	1958-59			\$440	
	1968-69			'696	
	1978-79			885	
(10)	The cost of educating college students is	incressing	•		
(10/	The cost of educating conege students is		s• expenditures per f	ull-time-equiv	elent student
		fa	er student educatio	n (1968-69 de	ollars)
		Total	Publicly control institutions		ly controlled istitutions
	1958-59	\$1,355	\$1,350		\$1,361
	1968-69	1,772	1,638		2,100
	1978-79	2,089	1,865		2,833

Figure 1. Enrollment in grades K-12 of regular day schools: United States, fell 1958 to 1978

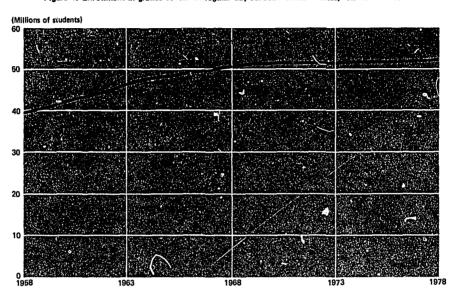


Figure 2. Total degree-credit enrollment in all institutions of higher education: United States, fall 1958 to 1978

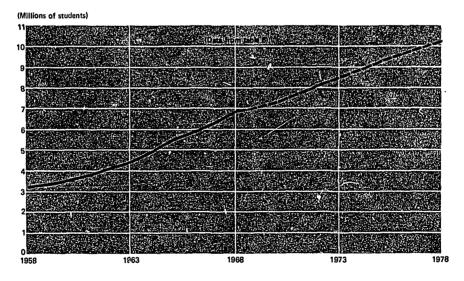


Figure 3. High school graduates: United States, 1958-59 to 1978-73

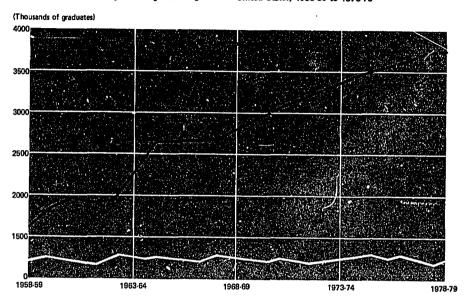


Figure 4. Earned degrees, by level: United States, 1958-59 to 1978-79

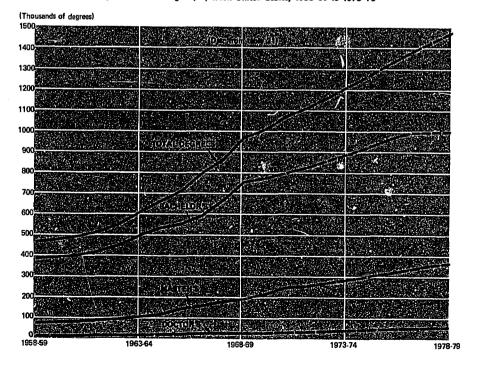




Figure 5. Classroom teachers in regular elementary and secondary day schools: United States, fall 1958 to 1978 (includes effect of Elementary and Secondary Education Act of 1965)

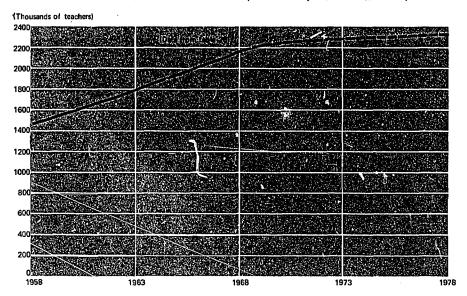


Figure 6. Total instructional staff for resident degree-credit courses in institutions of higher education: United States, first term, 1958-59 to 1978-79

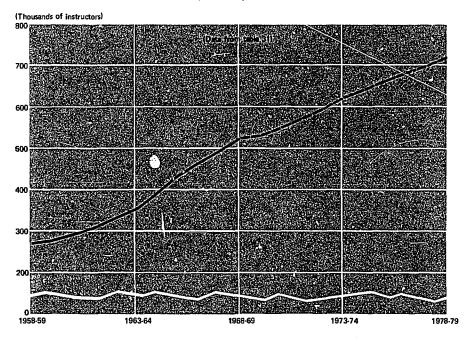


Figure 7. Total expenditures (1968-69 dollars), by regular elementary and secondary day schools: United States, 1958-59 to 1978-79

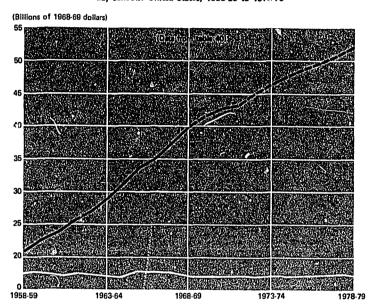


Figure 8. Total expenditures (1968-69 dollars), by institutions of higher education: United States, 1958-59 to 1978-79

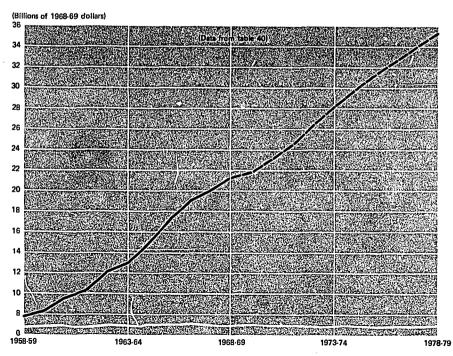


Figure 9. School-age population: United States, October 1958 to 1978

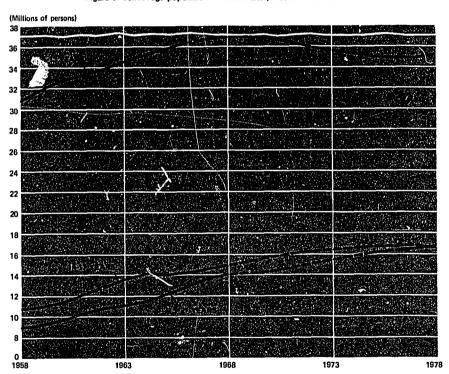


Table 1.—Summary of trends in education: United States, 1958, 1968, and 1978

[Numbers of persons in thousands]

ltem	Number, fall 1958	Number, fall 1968	Percent change, 1958 to 1968	Number, fall 1978	Fercent change, 1968 to 1978								
	In population age groups (C series, appendix B) . 30,932 37,224 20 35,479												
5-13	30,932	37,224	20	35,479	-5								
14-17	10,867	15,135	39	16,789	11								
18	2,398	3,580	49	4,280	20								
18-21	8,979	14,321	59	16,861	18								
Composite age group 1	2,139	3,080	44	4,161	35 								
			lment in elemen lary schoois (ch	•									
Grades K-12	39,581	50,761	28	52,300	3								
к-8	30,504	36,640	20	35,500	-3								
9-12	9,077	14,121	56	16,800	19								
Public	34,081			-									
Nonpublic	5,500	44,961 5,800	32 5	46,900 5,400	4 -7								
		Enrollme	ent in institution (chapter II)	s of higher	education								
Degree-credit	3,236	6.928	114	10,318	49								
Men	2,098	4,119	96	5,818	41								
Women	1,138	2,809	147	4,500	60								
Full time	2,215	4,938	123	-									
Full time	2,552	5,595	119	7,209 8,235	46 47								
•	•	-	-	-									
First time	775	1,630	110	2,539	56								
Undergraduate	2,924 312	6,160 768	111 146	8,979 1,339	46 74								
				-									
4-year institutions	2,851 386	5,639	98 234	8,141	44								
2-year institutions		1,289	_	2,176	69								
Public control	1,894	4,892	158	7,892	61								
Nonpublic control	1,343	2,036	52	2,426	19								
Nondegree credit	184	585	218	1,007	72								
Men	134	359	168	591	65								
Women	50	226	352	415	84								
Full time	73	273	274	467	71								
Full-time equivalent	106	360	240	618	72								
4-year institutions	44	82	86	108	32								
2-year institutions	139	503	262	899	79								
Public control	140		285										
Nonpublic control	44	539 46	<i>2</i> 65 5	956 51	77 11								
		High sch	ool graduates (c	hapter III)									
Total graduates	1,639	2,839	73	3,773	33								
Men	790	1,408	78	1,908	36								
Women	849	1,43i	69	1,865	31								
See footnotes at end of table.													



Table 1—(Continued)

(Numbers of persons in thousands)

Item	Number, fall 1958	Number, fall 1968	Percent change, 1958 to 1968	Number, fall 1978	Percent change, 1968 to 1978
		on.			
Public control	1,447 192	2,529 310	75 61	3,453 320	37 3
		Earne	ed degrees (char	oter III)	
Total degrees	462.0	969.7	110	1,481.4	53
Men	308.8 152.2	578.4 391.3	87 157	852.5 628.9	47 61
8achelor's and first-professional	380	755	99	1,056	40
Men	253	434	72	562	29
Women , ,	127	321	153	494	54
Master's	72.5	188.6	160	368.4	95
Men	48.4	121.6	151	240.3	98
Women , , , ,	24.2	67.0	177	128.1	91
Doctor's (except first-professional)	9.4	26.1	178	57.0	118
Men	8.4 1.0	22.8	171 230	50.2 6.8	120 106
Women					
			nal staff in elen ry schools (cha		
Classroom teachers	1,475	2,178	- 48	2,334	7
Elementary	931	1,231	32	1,218	1
Secondary	544	947	74	1,116	18
Public control	1,306 169	1,943 235	49 39	2,096 238	8 1
Other instructional staff	102	216	112	300	39
			onal staff in ins er education (ch		:
For instruction	327	636	94	884	39
4-year institutions	296	538	-	723	
2-year institutions	32.2	97.9		160.9	*
Public control	184 144.2	431 204.9	134 42	649 234.9	51 15
For administration and services	41	84	105	113	34
For organized research	35	73	109	101	38

See footnotes at end of table.



Table 1—(Continued)

Item	Amount, fall 1958	Amount, fall 1968	Percent change, 1958 to 1968	Amount, fell 1978	Percent change, 1968 to 1978
•		schools, in	s by elementary billions of const iollars (chapter	ant 1968-6	
Total expenditures	\$20.7	\$39.8	92	\$52.0	31
Public control	18.1	35.5	96	46.7	32
Nonpublic control	2.6	4.3	65	5.3	23
		ducation in	res by institution billions of controls (chapter)	stant 1968	69
Total expenditures	\$7.8	\$21.3	173	\$35.4	66
Public control	4.4	13.6	209	22.8	68
Nonpublic control	3.4	7.7	126	12.6	64
	edu	cation to fu	rge by institutional ill-time undergra 1968-69 dollars	duate stud	len ts
Public control	\$977	\$1,143	17	\$1,323	16
Nonpublic control	1,767	2,433	38	3,122	28

¹ For content of this age group, see "Estimation Methods," in appendix A end footnote 2 of table B-2, appendix B.
Undergraduate enrollment includes first-time enrollment.



Other instructional staff includes principals, supervisors, librarians, and guidance and psychological personnel.
NOTE: Data are for 50 States and the District of Columbia for all years. Because of rounding, detail may not add to totals.

CHAPTER II

Enrollment

Velma S. Southard and Martin M. Frankel

All leve!s (table 2)

Total fall enrollment (elementary, secondary, and higher education) increased from 43 million in 1958 to 58 million in 1968 and is expected to be 64 million in 1978. These totals include daytime enrollment in all regular public and nonpublic (parochial and nonsectarian) elementary and secondary schools; the degree-credit enrollment in publicly and privately controlled institutions of higher education in programs leading to a bachelor's or higher degree; and nondegree-credit enrollment in programs that extend not more than 3 years beyond high school and are designed to prepare for a technical, semiprofessional, or craftsman-clerical position.

Excluded from the enrollments in institutions of higher education are adult education courses of regular length, short courses of any kind, and correspondence, television, or radio courses, some of which are degree-credit courses. Excluded from the enrollments in elementary and secondary schools are: (1) those in public and nonpublic subcollegiate, vocational, technical, and trade schools, unless these are a part of the regular school system; (2) enrollment in evening classes in regular public schools; and (3) enrollment in elementary and secondary grades in public and nonpublic residential schools for exceptional children, Federal schools for Indians, schools on Federal installations, and subcollegiate departments of public and nonpublic institutions of higher education. These enrollments also exclude children aged 3 to 6 years enrolled in independent public and nonpublic nursery schools and kindergartens (exclusively preprimary schools). However, estimates of the latter enrollment are shown in table 2 as a separate item.

The projection of fall enrollments shown in table 2 is based on the following assumptions: (1) The percentage of school-age persons enrolling in school and the retention rates of those already in school will continue the 1958-68 trends, and (2) the school-age populations on which the projections are based will remain through 1978 substantially as now estimated and projected by the Bureau of the Census. These population bases are shown in appendix B, tables 8-1 and B-2.

Elementary and secondary day schools (tables 3, 4)

Fall enrollment in regular elementary and secondary day schools (table 3) increased from 40 million in 1958 to 51 million in 1968, and is expected to be 52 million in 1978. The 1968 enrollment excludes an estimated total of 0.3 million enrolled in public and nonpublic schools such as residential schools for exceptional children, subcollegiate departments of public and nonpublic institutions of higher education, Federal schools for Indians, and schools on Federal installations. It also excludes an estimated 1.3 million between the ages of 3 and 6 enrolled in independent nursery schools and kindergartens and an estimated 1.5 million in "special" (business and trade) schools.¹

Increases in the next decade will be at the high school level because children born in the high-birth years before 1960 will be progressing through high school in those years, and because

¹U.S. Department of Commerce, Bureau of the Census, Current Population Reports, Series P-20, No. 190, "School Enrollment: October 1968 and 1967," U.S. Government Printing Office, Washington, D.C.

enrollment rates of persons of high school age are continuing to increase. Total enrollment in grades 9 through 12 rose from 9 million in 1958 to 14 million in 1968 and is expected to be 17 million in 1978.

Enrollment in kindergarten and grades through B is expected to increase in 1969 and then decrease as the smaller birth cohorts of the 1960's affect the numbers attending. Even if fertility rates (the number of children born per 1,000 woman between the ages of 15 and 45 years) should continue to decline, it is likely that the number of pirths, which have now leveled off, will rise moderately in the 1970's. This is because the number of young mothers in the population is expected to be increasing in this period, thus offsetting the drop in fertility rates. The proportion of children of elementary school age who are enrolled in school is already so high (about 99 percent, if 5-year-olds are excluded) that any increase in enrollment rates for this age group will be minimal. Enrollment in kindergarten through grade 8 increased from 31 million in 1958 to 37 million in 1968 and is expected to be between 35 and 36 million in 1978.

Enrollment in schools organized as secondary (see footnote 1, table 4, for definition of elementary and secondary schools) increased from 12 million in 1958 to 19 million in 1968 and is expected to be 22 million in 1978. The enrollment in secondary schools is larger than the enrollment in grades 9 through 12 as shown in tables 2 and 3, because it includes all of the grade 9 through 12 enrollment as well as the enrollment in grades 7 and B in junior high schools. It may be even higher than it appears to be in table 4 because some State departments of education report only by grade even though some of their schools are organized on an elementary and secondary basis.

The reported enrollment in elementary schools is smaller than that in kindergarten through grade 8 (tables 2 and 3) because it excludes enrollment in grades 7 and 8 in junior high schools. The reported enrollment in elementary schools increased from 28 million in 1958 to 32 million in 1968 but is expected to be only 30 million in 1978.

Public school enrollment (tables 3, 4)

Projections of enrollment in regular public day schools are shown in table 3 by grade group and in table 4 by organizational level.

The public school enrollment by grade was projected for each grade separately and then summed to obtain the projections by grade group. The projections by grade were derived (1) by applying projected age-specific enrollment rates to 5-, 6-, and 7-year-olds (Bureau of the Census population series C) and (2) by applying projected grade-retention rates to children in grades 2 through 11.

It should be noted that children entering kindergarten through fall 1972, first grade through fall 1973, and second grade through fall 1974 are already born; and thus the number is not dependent on assumed fertility rates. By 1978, the last year shown in the tables, projections of kindergarten through grade 6 depend on assumed fertility rates. For an explanation of the fertility rates used by the Bureau of the Census for projecting series C population, see appendix B, table B-1 footnotes.

The enrollment in regular public day schools by organizational level was derived by assuming that the percentages of the 7th- and 8th-grade enrollment organized as secondary school enrollment will continue to increase as it has in the past 10 years.

For a more detailed description of the assumptions and methods used in projecting public school enrollment, see footnotes to table 3 and 4 and in appendix A, table A-1.

Nonpublic school enrollment (tables 3, 4)

About 10 percent of regular day grade school enrollment is now in nonpublic schools, mostly (about 90 percent) in the parochial schools. Because of the current fiscal difficulties of these schools, the projection of nonpublic school enrollment by conventional trend methods is not



feasible. The projections by grade group included in table 3 are, therefore, estimates based on the scanty information available to the Office of Education at this time. (Enrollments lost to the nonpublic schools will be shifted to the public schools, so the projected total public and nonpublic enrollment should not be affected.)

The enrollments in nonpublic schools by organizational level shown in table 4 are the same as those by grade group shown in table 3 because almost all the nonpublic school 7th and 8th graders in the past have been in the elementary schools.

Institutions of higher education (table 5)

Fall enrollment in both 4-year and 2-year institutions of higher education includes resident and extension, day and evening, full-time and part-time students who are (1) taking work creditable toward a bachelor's or higher degree or (2) in occupational or general studies programs not chiefly creditable toward a bachelor's degree but preparing for a technical, semiprofessional, or craftsman-clerical position. The total enrollment (table 5) increased from an estimated 3.4 million in 1958 to 7.5 million in 1968 and is expected to be over 11.3 million in 1978, of which 8.9 percent are expected to be in occupational or general studies.

Degree-credit enrollment (tables 6-8, 13)

Opening fall enrollment in courses creditable toward a bachelor's or higher degree increased from 3.2 million in 1958 to 6.9 million in 1968 and is expected to climb to 10.3 million by 1978. These figures include graduate, undergraduate, and first-professional enrollment in degree-credit courses in both 4-year and 2-year institutions.

Of the 10.3 million students expected to be taking work toward a bachelor's or higher degree in 1978, 1.3 million, or 13 percent, are expected to be taking graduate work beyond the bachelor's or first-professional level. Of the 9.0 million taking work creditable toward undergraduate or first-professional degrees, about one-fourth will be entering college for the first time. (See p. 16 and table 13.)

Projected totals of opening fall degree-credit enrollment by sex and attendance status and by control of institution attended are shown in table 6; for 4-year institutions, in table 7; and for 2-year institutions, in table 8. The projections were made separately for men and women by type and control of institution attended and summed to get the totals shown in the tables. The projections are based on the assumption that the percentage of college-age people enrolled in college in each of the above enrollment categories will continue to increase from 1968 to 1978 as it did from 1958 to 1968. Attendance status was projected by holding constant, through 1978, the 1968 percentage of full-time enrollment in each enrollment category. The wide differences in these percentages by enrollment category can be seen in appendix A, table A-1. This table also shows the estimating equations for each enrollment category.

Nondegree-credit enrollment (tables 9-11)

Opening fall enrollment in nondegree-credit courses (occupational or general studies programs) in all institutions of higher education rose from an estimated 184,000 in 1958 to 585,000 in 1968 and is expected to be 1.0 million in 1978. Over 90 percent of this enrollment was in publicly controlled institutions in 1968. Less than half of it was full-time, and about 85 percent was in 2-year institutions. These enrollments are shown for 4-year and 2-year institutions separately for the first time in this report series.

The projection of nondegree-credit enrollment is based on the assumption that, within the categories of sex of student and control and type of institution, nondegree-credit enrollment expressed as a percentage of the population 18-21 years of age will follow the 1958 through



1968 trends. Full-time attendance status was projected by holding constant to 1978 the percentage of nondegree-credit enrollment that was reported to be full time in 1968.

Full-time-equivalent enrollment (table 12)

Estimated full-time-equivalent opening fall enrollment in degree-credit and nondegree-credit courses increased from 2.7 million in 1958 to 6.0 million in 1968 and is expected to be 8.9 million in 1978. Of this enrollment, 71 percent was in publicly controlled institutions in 1968, and 77 percent is expected to be in publicly controlled institutions in 1978. Ninety-three percent of the 1978 full-time-equivalent enrollment is expected to be in degree-credit courses.

The estimate of full-time-equivalent degree-credit enrollment is based on 33 percent of part-time degree-credit enrollment plus full-time degree-credit enrollment, Full-time-equivalent nondegree-credit enrollment is based on 28 percent of part-time nondegree-credit enrollment plus full-time nondegree-credit enrollment. These percentages for converting part-time enrollment to full-time enrollment were taken from the 1964 sample survey of full-time-equivalent enrollment and credit hours.

Degree-credit enrollment by level (table 13)

Degree-credit enrollment data are available for three levels either directly from reports or by supplemental estimates. Those levels are first-time enrollment (first time enrolled in any institution of higher education), undergraduate and first-professional enrollment combined, and graduate enrollment. (First-time enrollment, shown separately in tables 14, 15, and 16, is also included with undergraduate and first-professional enrollment, tables 18 and 19, and with enrollment in 2-year institutions, table 8.) Table 13 summarizes the relationships by type of institution of the different levels of degree-credit enrollment.

First-time degree-credit annollment (tables 14, 15, 16)

First-time opening fall enrollment in degree-credit courses increased from 0.8 million in 1958 to 1.6 million in 1968, and is expected to be 2.5 million in 1978. Almost 75 percent of this enrollment was in publicly controlled institutions in 1968, compared to about 60 percent in 1958. First-time enrollment by attendance status is included for the first time in this report. Four-fifths of first-time enrollment in 1968 was full time.

Projected First-time degree-credit enrollment in all institutions of higher education is shown in table 14. It is based on the assumption that first-time enrollment by sex and by control and type of institution, as a percentage of the population averaging 18 years of age, will continue the 1958-6° trends. The projections are shown separately for 4-year and 2-year institutions in tables 15 and 16.

Resident graduate enrollment (table 17)

Estimated resident graduate enrollment increased from 312,000 in 1958 to 768,000 in 1968 and is expected to be 1.3 million in 1978. These estimates and projections are confined to resident graduate students because we have no separate data on extension graduate students. (Extension graduate students are included with resident and extension undergraduate and first-professional students in tables 18 and 19.) The estimates of resident graduate enrollment were derived from several sources. The principal sources were the comprehensive surveys of 1957, 1959, and 1961; the migration survey of 1963; and the opening fall enrollment surveys of 1967 and 1968. The full-time and part-time attendance status estimates for 1967 and 1968 were based on the 1967 survey of enrollment for advanced degrees and on advance data from the



same survey for 1968. For a detailed statement of the methods used in estimating graduate enrollment, see appendix A under "Estimation Methods."

The projection of graduate enrollment was based on the assumption that the trends shown from 1958 to 1968 for estimated resident graduate enrollment as a percentage of all degree-credit enrollment in 4-year institutions will continue to 1978. It is assumed that full-time graduate enrollment as a percentage of all graduate enrollment will remain approximately constant to 1978 at the 1968 level.

Undergraduate and first-professional enrollment (tables 8, 18, 19)

Undergraduate and first-professional enrollment in 4-year institutions was estimated by subtracting estimated resident graduate enrollment from the total of opening fall degree-credit resident and extension enrollment in these institutions. (For 2-year institutions, table 8, enrollment is the number reported, not estimated.)

Estimated undergraduate and first-professional enrollment (table 19) in 4-year institutions rose from 2.5 million in 1958 to 4.9 million in 1968 and, on the basis of the 1958-68 trend, is expected to be 6.8 million in 1978. Undergraduate enrollment in 2-year institutions (table 8) tripled from 1958 to 1968 (0.4 million to 1.3 million), and is expected to reach 2.2 million by 1978.



Table 2.—Summary of enrollment in educational institutions, by institutional level and control: United States, fall 1958 to 1978

[In thousands]

Year (fall)	Total enroll	nent (excludi	Total enrollment (excluding Ind-pendent	Instituti	Institutions of higher		day schools	day schools		nursery	Estimated independent nursery schools and
	nursery	nursery schools and Kinder	indergartens)	npe	education	Gra	Grades K-8	Grad	Grades 9-12	kind	kindergartens ³
	Total	Pub/ic	Nonpublic	Public	Nonpublic	Public	Nonpublic	Public	Nonpublic	Public	Nonpublic
(1)	(3	9	.	(2)	(9)	3	(8)	6)	(10)	(11)	(12)
1958	43,001	36,115	988'9	2,034	1,386	26,004	4,500	8,077	1,000	:	
6261	44,354	37,316	7,038	2,134	1,438	26,911	4,600	8,271	1,000	:	• • • • • • •
1960	45,969	38,557	7,412	2,276	1,512	27,692	4,800	8,589	1,100		•
1961	47,411	39,933	7,478	2,469	1,578	28,095	4,800	698'6	1,100		•
1962	49,253	41,502	7,751	2,753	1,651	28,637	4,900	10,112	1,200	:	• • • • • • • •
1963	51,253	43,253	8,000	3,066	1,700	29,304	5,000	10,883	1,300	:	
1964	52,996	44,884	8,112	3,468	1,812	30,025	5,000	11,391	1,300	236	649
1965	54,394	46,143	8,251	3,970	1,951	30,563	4,900	11,610	1,400	305	799
1966	55,729	47,388	8,341	4,349	2,041	31,145	4,900	11,894	1,400	374	842
2961	56,803	48,707	8,096	4,816	2,096	31,641	4,600	12,250	1,400	467	897
8961	58,274	50,392	7,882	5,431	2,082	32,240	4,400	12,721	1,400	437	806
					PROJECTED ⁴	40					
6961	960'69	51,319	ררד,ר	5,619	2,077	32,500	4,300	13,200	1,400	514	936
026	59,623	51,913	7,710	5,913	2,110	32,400	4,200	13,600	1,400	299	964
1971	60,232	52,570	7,662	6,270	2,162	32,200	4,100	14,100	1,400	. 697	1,021
1972	60,493	52,868	7,625	899'9	2,225	31,800	4,000	14,400	1,400	8	1,109
1973	61,057	53,372	7,685	7,072	2,285	31,500	4,000	14,800	1,400	916	1,207
1974	61,596	53,859	7,737	7,459	2,337	31,300	4,000	15,100	1,400	1,040	1,309
1975	62,022	54,238	7,784	7,838	2,384	31,100	4,000	15,300	1,400	1,170	1,420
1976	62,516	54,694	7,822	8,194	2,422	31,100	4,000	15,400	1,400	1,307	1,536
7261	63,071	55,221	7,850	8,521	2,450	31,200	4,000	15,500	1,400	1,446	1,659
	100,00	075	7 677	070	25.4.0	24 170	80.	25.45	5	1 502	1 788

Degree-credit and nondegree-credit enrollments.

²Does not include independent nursery schools and kindergartens, residential schools for sxceptional children, subcollegiate departments of institutions of higher education, Federal schools for Indians, and schools on Federal installations.

Setimates of independent nursery school and kindergarten enrollments are based on the

difference between all nursery school and kindergarten enrollments of children aged 3, 4, 5, and 6 years, as reported by the Bureau of the Census, and nursery school and kindergarten enrollments reported by the regular public and private schools. For assumptions on which projections of elementary, secondary, and higher education enrollments are based and for projection methods used, see footnotes to tables 3, 6,

and 9, and methodology in appendix A, table A-1.

The projections of enrollments in independent nursery schools and kindergartens are based on the following assumptions: (1) Enrollments in all nursery schools and kinder-gartens of children aged 3, 4, 5, and 6 years will follow the 1964-68 trends of

enrollment in these schools at each age level as a percentage of the total population of that age; and (2) enrollments in independent nursery schools and kindergartens of children aged 3, 4, 5, and 6 years will be the difference between enrollment in all nursery schools and kindergartens, as reported by the Census Bureau, and enrollment in nursery schools and kindergartens reported by regular public and private schools. For further methodciogical details, see appendix A, table A-1.

NOTE: Data are for 50 States and the District of Columbia for all years. Because of rounding, detail may not add to totals.

SOURCES: Nursery school and kindergarten enrollment data are based on U.S. Department of Health, Education, and Welfare, Office of Education circulars: "Nursery-kindergarten Enrollment of Children under Six," October 1964 through 1968. Sources for enrollments in regular elementary and secondary schools and institutions of higher education are given on tables 3, 6, and 9.

Table 3.—Enrollment in grades K-8 and 9-12 of regular day schools, by institutional control:

United States, fall 1958 to 1978¹

lın	tnousands	

Year	Total I	oublic and n	onpublic		Public		Nonp	ublic (estima	ited) ²
(fall)	K-12	к-в`	9-12	K-12	к-8 ³	9-12 ³	K-12	K-8	9-12
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
1958	39,581	30,504	9,077	34,081	26,004	3,077	5,500	4,500	1,000
1959	40,782	31,511	9,271	35,182	26,911	8,271	5,600	4,600	1,000
1960	42,181	32,492	9,689	36,281	27,692	8,589	5,900	4,800	⁴ 1,100
1961	43,364	32,395	10,469	37,464	28.095	9,369	5,900	⁴ 4,800	⁴ 1,100
1962	44,849	33,537	11,313	38,749	28,637	10,112	6,100	4,900	1,200
1963	46,487	34,304	12,183	40,187	29,304	10,883	6,300	5,000	⁴ 1,300
1964	47,716	35,025	12,691	41,416	30,025	11,391	6.300	5,000	⁴ 1,300
1965	48,473	35,463	13,010	42,173	30,563	11,610	6,300	⁴ 4,900	⁴ 1,400
1966	49,339	36,045	13,294	43,039	31,145	11,894	6,300	4,900	1,400
1967	49,891	36,241	13,650	43,891	31,641	12,250	6,000	4,600	1.400
1968	50,761	36,640	14,121	44,961	32,240	12,721	5,800	⁵ 4,400	⁵ 1,400
				PROJ	ECTED ⁶				
1969	51,300	36,800	14,600	45,600	32,500	13,200	5,700	4,300	1,400
1970	51,600	36,600	15.000	46,000	32,400	13,600	5,600	4,200	1,400
1971	51,700	36,300	15,500	46,200	32,200	14,100	5,500	4,100	1,400
1972	51,700	35,800	15.800	46,300	31,800	14,400	5,400	4,000	1,400
1973	51,700	35,500	16.200	46,300	31,500	14,800	5,400	4,000	1,400
1974	51,800	35,300	16,500	46,400	31,300	15,100	5,400	4,000	1,400
1975	51,800	35,100	16,700	46,400	31,100	15,300	5,400	4,000	1,400
1976	51,900	35,100	16,800	46,500	31,100	15,400	5,400	4,000	1,400
1977	52,100	35,200	16,900	46,700	31,200	15,500	5,400	4,000	1,400
1978	52,300	35,500	16,800	46,900	31,500	15,400	5,400	4,000	1,400

¹ Does not include independent nursery schools and kindergartens, residential schools for exceptional children, subcollegiate departments of institutions of higher education, Federal schools for Indians, schools on Federal installations, and other schools not in the regular school system.

not in the regular school system.

Estimates revised spring 1968 on basis of 1965
Office of Education survey.

Actual data from Office of Education surveys.

Data from the 1968 survey of nonpublic schools were received too late for inclusion in this table.

The projection of fall enrollment in regular day schools is based on the following assumptions: (1) Enrollment rates of the 5-, 6-, and 7-year-old population in public school kindergarten and grades 1 and 2 will follow the 1958-68 trends; (2) the retention rate of public school grade 7 from grade 6 will remain constant at 104 percent from 1972 through 1973; (3) the retention rates of public school grade 9 from grade 8 will follow the 1958-68 trend with the restriction that the rete cannot exceed 105 percent; (4) the retention rates of all other public school grades will follow the 1958-68 trends with the restriction thet they cannot exceed 100 percent; and (5) enrollment in grades K-8 in regular nonpublic (ay schools will decrease to 1972 and then remain constant to 1978; grades 9-12 will remain constant at the 1968 level.

NOTE: Data are for 50 States and the District of Columbia for all years. Because of rounding,

detail may not add to totals.

SOURCES: Enrollment date end estimates are based on U.S. Department of Health, Education, and Welfare, Office of Education publications: (1) "Statistics of Public Schools," fall 1964 through 1968; (2) "Enrollment, Teachers, and Schoolhousing," fall 1957 through 1963; (3) "Statistics of State School Systems," blennially, 1957-58 through 1961-62; (4) "Statistics of Nonpublic Elementary and Secondary Schools, 1965-66"; (5) "Nonpublic School Enrollment in Grades 9-12, Fall 1964, and Graduates, 1963-64"; (6) "Statistics of Nonpublic Elementary Schools, 1961-62"; and (7) "Statistics of Nonpublic Elementary Schools, 1960-61."

The population projections as of October 1, of 5-, 6-, and 7-year-olds on which the chrollment projections in kindergarten end grades 1 and 2 are based, are consistent with Series C population projections in U.S. Department of Commerce, Bureau of the Census, "Current Population Reports," Series P-25, No. 388, March 14, 1968. The B, C, and D population projections, together with definitions of each series, are shown in appendix B, table B-1.

For enrollment projections based on population projections, series B and series D, see appendix B, tables B-4 and B-5.



³Fall enrollment in public schools not reported by grade prior to 1962; grade breakdown for years 1958 through 1961 estimated from school rear enrollment.

Table 4.—Enrollment in regular day schools, by institutional control and organizational level:

United States, fall 1958 to 1978¹

(in thousands)

Year	Total	public and n	onpublic		Public		No	npublic (esti	nated) ²
(fall)	K-12	Elementary	Secondary	K-12	Elementary	Secondary	K-12	Elementary	Secondary
(1)	(2)	(3)	(4)	(6)	(6)	(7)	(8)	(9)	(10)
1958	39,581	27,915	11,666	34,081	23,415	10,666	5,500	4,500	1,000
1959	40,782	28,506	12,276	35,182	23,906	11,276	5,600	4,600	1,000
1960	42,181	29,150	13,031	36,281	24,350	11,931	5,900	4,800	³ 1,100
1961	43,364	29,403	13,961	37,464	24,603	12,861	5,900	³ 4,800	³ 1,100
1962	44,849	30,164	14,685	38,749	25,264	13,485	6,100	4,900	1,200
1963	46,487	30,775	15,712	40,187	25,775	14,412	6,300	5,000	³ 1,300
1964	47,716	31,221	16,495	41,416	26,221	15,195	6,300	5,000	³ 1,300
1965	48,473	31,570	16,904	42,173	26,670	15,504	6,300	³ 4,900	³ 1,400
1966	49,339	32,005	17,334	43,039	27,105	15,934	6,300	4,900	1,400
1967	49,891	31,972	17,919	43,891	27,372	16,519	6,000	4,600	1,400
1968	50,761	31,818	18,943	44,961	27,418	17,543	5,800	⁴ 4,400	⁴ 1,400
				PRO	JECTED ⁵				
19€9	51,300	31,700	19,600	45,600	27,400	18,200	5,700	4,300	1,400
1970	51,600	31,400	20,200	46,000	27,200	18,800	5,600	4,200	1,400
1971	51,700	30,900	20,800	46,200	26,800	19,400	5,500	4,100	1,400
1972	51,700	30,400	21,300	46,300	26,400	19,900	5,400	4,000	1,400
1973	51,700	29,900	21,800	46,300	25,900	20,400	5,400	4,000	1,400
1974	51,800	29,600	22,100	46,400	25,600	20,700	5,400	4,000	1,400
1975	51,800	29,500	22,300	46,400	25,500	20,900	5,400	4,000	1,400
1976	51,900	29,400	22,500	46,500	25,400	21,100	5,400	4,000	1,400
1977	52,100	29,700	22,400	46,700	25,700	21,000	5,400	4,000	1,400
1978	52,300	30,100	22,100	46,900	26,100	20,700	5,400	4,000	1,400

Does not include independent nursery schools and kindergartens, residential school for exceptional children, subcollegiate departments of institutions of higher education, Federal schools for Indians, and schools on Federal installations.

Schools included are classified either as "elementary" or "secondary" depending upon the way in which the school is orgenized rether than on a K-8 and 9-12 basis. An elementary school is one so classified by State and local practice and consists of any span of grades not above grade 8 (most commonly K-6 or K-8). Nursery schools are included with elementary. A secondary school comprises any span of grades beginning with the next grade following the elementary school and ending with or below grade 12, including junior high schools, the different types of academic high schools, and vocational or trade high schools. Grades 7 and 8 mey fall into the elementary or secondary school classification depending upon the organization of the school of which they are a part.

²Estimetes revised spring 1968 on basis of 1965. Office of Education survey.

³Actuel deta from Office of Education surveys.

Data from the 1968 survey of nonpublic schools were received too late for inclusion in this table.

were received too late for inclusion in this table.

The Projection of fall enrollment in regular public day schools by organizational level is based on the assumption that the percentage of enrollment in grades 7 and 8 that will be organized as elementary

and as secondary enrollment will follow the 1958-68 trend.

The projection of regular fall enrollment in nonpublic schools by organizational level is based on the assumption that substantially all nonpublic enrollment in grades 7 and 8 will continue as elementary enrollment.

For further methodological details, see appendix
A. table A-1.

NOTE: Data are for 50 States and the District of Columbia for all years. Because of rounding, detail may not add to totals.

SOURCES: Enrollment data and estimates are based on U.S. Department of Health, Education, and Welfare, Office of Education publications: (1) "Statistics of Public Schools," fall 1964 through 1968; (2) "Enrollment, Teachers, and Schoolhousing," fall 1958 through 1963; (3) "Statistics of Nonpublic Elementary and Secondary Schools, 1965-66"; (4) "Nonpublic School Enrollment in grades 9-12, Fall 1964, and Graduates, 1963-64"; (5) "Statistics of Nonpublic Elementary Schools, 1961-62"; and (6) "Statistics of Nonpublic Secondary Schools, 1960-61."



Table 5.—Summary of enrollment in all institutions of higher education, by degree-credit status and institutional type: United States, fall 1958 to 1978

[Resident and extension opening fall enrollment-in thousands]

	Total degree- credit and		Degree-cred	lit	No	ondegree-ci	edit
Year (fall)	nondegree- credit enrollment	Total	4-year	2-year	Total	4-year	2-year
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1958	3,420	3,236	2,851	386	184	44	139
1959	3,571	3,377	2,968	410	194	41	153
1960	3,789	3,583	3,131	451	206	40	166
1961	4,047	3,861	3,343	518	186	38	148
1962	4,404	4,175	3,585	590	229	45	184
1963	4,766	4,495	3,870	625	271	52	220
1964	5,280	4,950	4,239	711	330	52	278
1965	5.921	5,526	4.685	841	395	63	332
1966 ¹	6,390	5,928	4,984	945	462	80	381
1967 ¹	6.912	6,392	5,316	1,075	520	83	437
1968	7,513	6,928	5,639	1,289	585	82	503
			PROJ	ECTED ²			
1969	7,697	7,087	5,746	1,341	610	83	527
1970	8,023	7,377	5,960	1,417	646	85	561
1971	8,432	7,743	6,234	1,509	689	88	601
1972 ,	8,893	8,156	6,546	1,611	737	92	645
1973	9,357	8,572	6,858	1,714	785	95	690
1974	9,796	8,963	7,150	1,814	833	98	734
1975	10,222	9,343	7,431	1,912	879	101	778
1976	10,617	9,693	7,688	2,005	924	104	820
1977	10,971	10,006	7,915	2,090	965	106	859
1978	11,325	10,318	8,141	2,176	1,007	108	899

¹The breakdown between degree-credit and nondegree-credit enrollment in 1966 and 1967 is estimated. See appendix A, "Estimation Methods."

NOTE: Data are for 50 States and the District of Columbia for all years. Because of rounding, detail may not add to totals.

SOURCES: Enrollment data and estimates are based on U.S. Department of Health, Education, and Welfare, Office of Education publications: (1) "Opening (Fall) Enrollment in Higher Education," annually, 1958 through 196B; (2) data from "Resident and Extension Enrollment in Institutions of Higher Education," fall 1966 (unpublished); and (3) "Resident and Extension Enrollment in Institutions of Higher Education," blennially, first term 1957 through 1961.



For assumptions underlying these projections and for methods of projecting, see footnotes to tables 6 and 9, and to table A-1 in appendix A.

Table 6.—Total degree-credit enrollment in all institutions of higher education, by sex, by attendance status, and by institutional control:

United States, fall 1958 to 1978

[Rasident and extension opening fall enrollment]

	Total	Se	×	Attendan	ce status ²	Con	trol
Year (fall)	degree-credic enrollment ¹	Men	Women	Full-time	Part-time	Public	Private
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1958	3,236,414	2,098,164	1,138,250	2,215,000	1,022,000	1,893,843	1,342,571
1959	3,377,273	2,160,886	1,216,387	2,314,000	1,063,000	1,984,022	1,393,251
1960	3,582,726	2,256,877	1,325,849	2,466,000	1,117,000	2,115,893	1,466,833
1961	3,860,643	2,408,601	1,452,042	2,714,000	1,147,000	2,328,912	1,531,731
1962	4,174,936	2,587,291	1,587,645	2,902,101	1,272,835	2,573,720	1,601,216
1963	4,494,626	2,772,562	1,722,064	3,068,469	1,426,157	2,848,454	1,646,172
1964	4,950,173	3,032,992	1,917,181	3,417,796	1,532,377	3,179,527	1,770,646
1965	5,526,325	3,374,603	2,151,722	3,910,848	1,615,477	3,624,442	1,901,883
1966 ³	5,928,000	3,577,000	2,351,000	4,232,000	1,696,000	3,940,000	1,988,000
1967 ³	6,392,000	3,822,000	2,570,000	4,555,000	1,837,000	4,349,000	2,043,000
1968	6,928,115	4,119,002	2,809,113	4,937,848	1,990,267	4,891,743	2,036,372
			PROJECT	red ⁴			
1969	7,087,000	4,187,000	2,899,000	5,040,000	2,046,000	5,055,000	2,032,000
1970	7,377,000	4,333,000	3,044,000	5,236,000	2,141,000	5,313,000	2,064,000
1971	7,743,000	4,520,000	3,223,000	5,484,000	2,259,000	5,627,000	2,116,000
1972	8,156,000	4,733,000	3,423,000	5,765,000	2,391,000	5,979,000	2,178,000
1973	8,572,000	4,949,000	3,623,000	6,047,000	2,525,000	6,334,000	2,238,000
1974	8,963,000	8,148,000	3,815,000	6,311,000	2,652,000	6,674,000	2,289,000
1975	9,343,000	5,340,000	4,003,000	6,566,000	2,778,000	7,007,000	2,336,000
1976	9,693,000	5,515,000	4,178,000	6,799,000	2,894,000	7,320,000	2,373,000
1977	10,006,000	5,665,000	4,341,000	7,005,000	3,001,000	7,606,000	2,400,000
1978	10,318,000	5,818,000	4,500,000	7,209,000	3,108,000	7,892,000	2,426,000

¹Beginning in 1966, some students previously reported as nondegree-credit are included with degree-credit enrollment.

survey, with minor adjustments, will remain constant to 1978.

Veterans attending college through aid provided by the Veterans' Readjustment Benefits Act of 1966 are included in the trend projections.

For further methodological deteils, see appendix A, table A-1.

NOTE: Date are for 50 States and the District of Columbia for all yeers. Because of rounding, detail may not add to totals.

SOURCES: Enrollment data and estimetes are based on U.S. Department of Health, Education, and Welfare, Office of Education circulars:
(1) "Opening (Fall) Enrollment in Higher Education," annually, 1958 through 1968;
(2) data from "Resident and Extension Enrollment in institutions of Higher Education," fall 1966 (unpublished); and (3) "Resident and Extension Enrollment in Institutions of Higher Education," blennially, first term 1957 through 1961.

Population on which projections are based is shown in appendix 8, table 8-2.



²Estimeted, prior to 1962. See appendix A, "Estimation Methods."

³The breakdown between degree-credit and nondegree-cradit enrollment is estimated. See appendix A, "Estimation Methods."

A, "Estimation Methods."

The estimates for 1966 and 1967 differ from the estimates published in the 1968 edition of "Projections of Educational Statistics" because of revisions in the 1966 comprehensive data for 4-year institutions.

⁴The projection of total degree-credit enrollment in all institutions by sex and institutional control is besed on the assumption that enrollment in these institutions, expressed as a percentage of population aged 18-21 years, will follow the 1958-68 trend to 1978 in each enrollment category.

The projection of total degree-credit enrollment in all institutions by attendence status is based on the assumption that in each enrollment category the ratio of full-time enrollment to total enrollment reported in the 1968 opening fall enrollment

Table 7.—Total degree-credit enrollment in 4-year institutions of higher education, by sex, by attendance status, and by institutional control:

United States, fall 1958 to 1978

[Resident and extension opening fail enrollment]

Year (fall)	Total degree-credit	., · · · . : So	BX	Attendar	nce status ²	Con	trol
	enrollment ¹	Men	Women	Full-time	Part-time	Public	Private
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1958	2,850,805	1,850,124	1,000,681	2,000,000	851,000	1,562,962	1,287,843
1959	2,967,558	1,901,132	1,066,426	2,088,000	879,000	1,628,055	1,339,503
1960	3,131,393	1,974,722	1,156,671	2,219,000	912,000	1,723,583	1,407,810
1961	3,342,718	2,088,445	1,254,273	2,421,000	922,000	1,872,531	1,470,187
1962	3,585,407	2,221,667	1,363,740	2,584,908	1,000,499	2,054,463	1,530,944
1963	3,869,837	2,385,902	1,483,935	2,741,251	1,128,586	2,297,146	1,572,691
1964	4,239,305	2,593,483	1,645,822	3,021,411	1,217,894	2,558,668	1,680,637
1965	4,684,888	2,852,757	1,832,131	3,414,545	1,270,343	2,886,552	1,798,336
1966 ³	4,984,000	3,000,000	1,984,000	3,669,000	1,315,000	3,100,000	1,883,000
1967 ³	5,316,000	3,169,000	2,148,000	3,938,000	1,378,000	3,382,000	1,934,000
1968	5,638,616	3,336,709	2,301,907	4,199,141	1,439,475	3,722,602	1,916,014
			PROJECT	TED ⁴			_
1969	5,746,000	3,375,000	2,371,000	4,273,000	1,473,000	3,839,000	1,907,000
1970	5,960,000	3,476,000	2,484,000	4,425,000	1,535,000	4.027.000	1,933,000
1971	6,234,000	3,610,000	2,625,000	4,621,000	1,613,000	4,258,000	1.977.000
1972	6,546,000	3,763,000	2,782,000	4,845,000	1,701,000	4,516,000	2,030,000
1973	6,858,000	3,918,000	2,939,000	5,068,000	1,790,000	4,777,000	2.081.000
1974	7,150,000	4,059,000	3,091,000	5,275,000	1,875,000	5,026,000	2,124,000
1975	7,431,000	4,193,000	3,238,000	5,474,000	1,958,000	5,269,000	2,162,000
1976	7,688,000	4,314,000	3,374,000	5,654,000	2,034,000	5,497,000	2,191,000
1977	7,915,000	4,415,000	3,501,000	5,811,000	2,104,000	5,705,000	2,211,000
1978	8,141,000	4,517,000	3,624,000	5,967,000	2,174,000	5,912,000	2,229,000

¹Beginning in 1966, some students previously reported as nondegree-credit are included with degree-credit enrollment.

reported in the 1968 opening fall enrollment survey, with minor adjustments, will remain constant to 1978.

Veterans attending college through aid provided by the Veterans' Readjustment Benefits Act of 1966 are included in the trend projections.

For further methodological details, see appendix A, table A-1.

NOTE: Data are for 50 States and the District of Columbia for all years. Because of rounding, detail may not add to totals.

SOURCES: Enrollment data and estimates are based on U.S. Department of Health, Education, and Welfare, Office of Education circulars:

(1) "Opening (Fall) Enrollment in Higher Education," annually, 1958 through 1968;

(2) data from "Resident and Extension Enrollment in Institutions of Higher Education," fail 1966 (unpublished); and (3) "Resident and Extension Enrollment in Institutions of Higher Education," blennially, first term 1957 through 1961.



Estimated prior to 1962. See appendix A, "Estimation Methods."

³The breakdown between degree-credit and non-degree-credit enrollment is estimated. See appendix A, "Estimation Methods,"

A, "Estimation Methods,"

The estimates for 1966 and 1967 differ from the estimates published in the 1968 edition of "Projections of Educational Statistics" because of revisions in the 1966 comprehensive data for 4-year institutions.

The projection of total degree-credit enrollment in 4-year institutions by sex and institutional control is based on the assumption that enrollment in these institutions, expressed as a percentage of population aged 18-21 years, will follow the 1958-68 trend to 1978 in each enrollment category.

The projection of total degree-credit enrollment in 4-year institutions by attendence status is based on the assumption that in each enrollment category the ratio of full-time enrollment to total enrollment

Table 8.—Total degree-credit enrollment in 2-year institutions of higher education, by sex, by attendance status, and by institutional control:

United States, fall 1958 to 1978

[Resident and extension opening fall enrollment]

\$4 45 HI	Total	Se	×	Attendan	ce stetus ²	Cont	roi
Year (fell)	degree-credit enrollment ¹	Men	Women	Full-time	Part-time	Public	Private
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1958	385,609	248,040	137,569	215,000	171,000	330,881	54,728
1959	409,715	259,754	149,961	226,000	184,C00	355,967	53,748
1960	451,333	282,155	169,178	247,000	205,000	392,310	59,023
1961	517,925	320,156	197,769	293,000	225,000	456,381	61,544
1962	589,529	365,624	223,905	317,193	272,336	519,257	70,272
1963	624,789	386,660	238,129	327,218	297,571	551,308	73,481
1964	710,868	439,509	271,359	396,385	314,483	620,859	90,009
1965	841, 37	521,846	319,591	495,454	345,983	737,890	103,547
1966 ³	945,000	577,000	367,000	563,000	381,000	840,000	105,000
1967 ³	1,075,000	653,000	422,000	617,000	459,000	967,000	109,000
1968	1,289,499	782,293	507,206	738,707	550,792	1,169,141	120,358
			PROJECT	red ⁴	-	-	
1969	1,341,000	812,000	529,000	767,000	573,000	1,216,000	125,000
1970	1,417,000	857,000	561,000	811,000	606,000	1,286,007	131,000
1971	1,509,000	910,000	599,000	863,000	646,000	1,370,000	139,000
1972	1,611,000	970,000	641,000	921,000	690,000	1,463,000	148,000
1973	1,714,000	1,031,000	683,000	980,000	734,000	1,557,000	157,000
1974	1,814,000	1,089,000	725,000	1,036,000	778,000	1,648,000	166,000
1975	1,912,000	1,147,000	766,000	1,092,000	820,000	1,738,000	174,000
1976	2,005,000	1,201,000	804,000	1,145,000	860,000	1,823,000	182,000
1977	2,690,000	1,250,000	840,000	1,193,000	897,000	1,901,000	189,000
1978	2,176,000	1,301,000	876,000	1,242,000	934,000	1,979,000	197,000

¹Beginning in 1966, some students previously reported as nondegree-credit are included with degree-credit enrollment.

Veterans attending college through aid provided by the Veterans' Readjustment Senefits Act of 1966 are included in the trend projections.

For further methodological details, see appendix A, table A-1.

NOTE: Data are for 50 Stetes and the District of Columbia for all years. Secause of rounding, detail may not add to totals.

SOURCES: Enrollment data and estimates are based on U.S. Department of Heelth, Education, and Welfare, Office of Education circulars:
(1) "Opening (Fall) Enrollment in Higher Education," annually, 1958 through 1968;
(2) data from "Resident and Extension Enrollment in Institutions of Higher Education," fall 1966 (unpublished); and (3) "Resident and Extension Enrollment in Institutions of Higher Education," biennially, first term 1957 through 1961.

Population on which projections are based is shown in appendix 8, table 8-2.

²Estimated prior to 1962. See appendix A, "Estimation Methods."

³ The breakdown between degree-credit and nondegree-credit enrollment is estimated. See appendix A, "Estimation Methods."

The projection of total degree-credit enrollment in 2-year institutions by sex and institutional control is based on the assumption that enrollment in these institutions, expressed as a percentage of population aged 18-21 years, will fullow the 1957-68 trend to 1978 in each enrollment category.

The projection of total degree-credit enrollment in 2-year institutions by attendance status is based on the assumption that in each enrollment category the ratio of full-time enrollment to total enrollment reported in the 1968 opening fall enrollment survey, with minor adjustments, will remain constant to 1978.

Table 9.—Nondegree-credit enrollment in all institutions of higher education, by sex, by attendance status, and by institutional control:

United States, fall 1958 to 1978

[Resident and extension opening fall enrollment]

Year (fail)	Nondegree- credit	Se	x	Attendan	ice status ²	Сол	trol
Tear (Taji)	enrollment ¹	Men	Women	Full-time	Part-time	Public	Private
(1)	(2)	(3)	(4)	(6)	(6)	(7)	(8)
1958	184,000	134,000	50,000	73,000	110,000	140,000	44,000
1959	194,200	136,915	57,285	78,000	116,000	149,499	44,701
1960	206,000	147,000	59,000	83,000	123,000	161,000	46,000
1961	186,483	128,363	58,120	76,000	111,000	140,579	45,904
1962	229,000	155,000	74,000	95,000	134,000	179,000	50,000
1963	271,241	182,655	88,588	115,000	156,000	217,393	53,847
1964	329,847	215,721	114,126	140,000	190,000	288,181	41,666
1965	394,539	255,417	139,122	172,000	222,000	345,154	49,385
1966 ³	462,000	279,000	183,000	207,000	255,000	409,000	53,000
1967 ³	520,000	311,000	209,000	238,000	282,000	467,000	53,000
1968	584,976	358,647	226,329	272,962	312,014	538,909	46,067
			PROJECT	ED ⁴			
1969	610,000	371,000	238,000	284,000	325,000	564,000	45,000
1970	646,000	391,000	254,000	301,000	345,000	600,000	46,000
1971	689,000	415,000	274,000	321,000	368,000	643,000	46,000
1972	737,000	442,000	295,000	343,000	394,000	690,000	47,000
1973	785,000	469,000	316,000	365,000	420,000	738,000	47,000
1974	833,000	495,000	337,000	387,000	446,000	785,000	48,000
1975	879,000	521,000	358,000	408,000	471,000	831,000	49,000
î976	924,000	546,000	378,000	429,000	495,000	874,000	49,000
1977	965,000	568,000	397,000	448,000	517,000	915,000	50,000
1978	1,007,000	591,000	415,000	467,000	540,000	956,000	51,000

Reginning in 1966, some students previously reported as nondegree-credit are included with degree-credit enrollment.

the 1968 opening fail enrollment survey, with minor adjustments, will remain constant to 1978. Veterans attending college through aid provided

by the Veterans' Readjustment Senefits Act of 1966 are included in the trend projections.

For further methodological details, see appendix A, table A-1.

NDTE: Data are for 50 States and the District of Columbia for all years. Secause of rounding, detail may not add to totals.

SDURCES: Enrollment data and estimates are based on U.S. Department of Health, Education, and Welfare, Office of Education circulars: (1) "Dpening (Fall) Enrollment in Higher Education," annually, 1963 through 1968; (2) data from "Resident and Extension Enrollment in Institutions of Higher Education," fall 1966 (unpublished); and (3) "Resident and Extension Enrollment in Institutions of Higher Education," blennially, first term 1957 through 1961.

Population on which projections are based is shown in appendix B, table B-1.



²Estimated prior to 1968. See appendix A, "Estimation Methods."

³The breakdown between degree-credit and non-degree-credit enrollment is estimated. See appendix A, "Estimation Methods."

A, "Estimation Methods,"

The estimates for 1966 and 1967 differ from estimates published in the 1968 edition of "Projections of Educational Statistics" because of revisions in the 1966 comprehensive data for 4-year institutions.

The projection of total nondegree-credit enrollment in all institutions by sex and institutional control is based on the assumption that enrollment, expressed as a percentage of population aged 18-21 years, will follow the 1958-68 trend to 1978 in each enrollment category.

The projection of total nondegree-credit enrollment by attendance status is based on the assumption that in each enrollment category the ratio of full-time enrollment to total enrollment reported in

Table 10.—Nundegree-credit enrollment in 4-year institutions of higher education, by sex, by attendance status, and by institutional control:

United States, fall 1958 to 1978

[Resident and extension opening fall enrollment]

	Nondegree-	Se	×	Attendan	ce status ²	Cont	rol
Year (fall)	credit enrollment ¹	Men	Women	Full-time	Part-time	Public	Private
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
 1958	44.000	34,000	10,000	15,000	29,000	28,000	1€,000
1959 ,	41,427	29,977	11,450	15,000	27,000	27,561	13,866
960	40,000	29,000	11,000	14,000	26,000	27,000	13,000
1961	38,002	28,136	9,866	13,000	25,000	25,400	12,602
1962	45,000	32,000	13,000	16,000	29,000	30,000	15,000
1963	51,518	36,492	15,026	19,000	32,000	33,673	17,845
1964	51,789	36,582	15,207	20,000	32,000	34,261	17,528
1965	63,024	43,624	19,400	25,000	38,000	41,780	21,244
1966 ³	80,000	47,000	33,000	33,000	47,000	54,0 0 0	21,000
1967 ³	83,000	49,000	33,000	35,000	48,000	62,000	21,000
1968	82,179	50,589	31,590	36,166	46,013	61,576	20,603
			PROJECT	ED ⁴		<u>-</u>	
1969	83,000	50,000	32,000	37,000	46,000	62,000	21,000
1970	85,000	51,000	34,000	38,000	47,000	64,000	21,000
1971	38,000	52,000	36,000	39,000	49,000	66,000	22,000
1972	92,000	54,000	38,000	41,000	51,000	69,000	22,000
1973	95,000	55,000	40,000	42,000	53,000	72,000	23,000
1974	98,000	56,000	42,000	44,000	54,000	75,000	24,000
1975	101,000	57,000	44,000	45,000	56,000	77,000	24,000
1976	104,000	58,000	45,000	46,000	57,000	79,000	25,000
1977	106,000	59,000	47,000	47,000	53,000	81,000	25,000
1978	108,000	59.000	49,000	48,000	59,000	83,000	25,000

¹Beginning in 1966, some students previously reported as nondegree-credit are included with degree-credit enrollment.

Estimated prior to 1968. See appendix A, "Estimation Methods."

A, "Estimation Methods."

The estimates for 1966 and 1967 differ from estimates published in the 1938 edition of "Projections of Educational Statistics" because of revisions in the 1966 comprehensive data for 4-year institutions.

The projection of total nondegree-credit enrollment in 4-year institutions by sex and institutional control is based on the accumption that enrollment, expressed as a percentage of population aged 18-21 years, will follow the 1953-68 trend to 1978 in each enrollment category.

The projection of total nondegree-credit enrollment in 4-year institutions by attendance status is based on the assumption that in each enrollment category the ratio of full-time enrollment to total enrollment reported in the 1968 opening fall enroll-

ment survey, with minor adjustments, will remain

Veterans attending college through aid provided by the Veterans' Readjustment Senefits Act of 1966 are included in the trend projections.

For further methodological details, see appendix A, table A-1.

NOTE: Data are for 50 States and the District of Columbia for all years. Because of rounding, detail may not add to totals.

SOURCES: En ollment data and estimates are based on U.S. Oepartment of Health, Education, and Welfare, Office of Education circulars:
(1) "Opening (Fall) Enrollment in Higher Education," annually, 1963 through 1968;
(2) data from "Resident and Extension Enrollment in Institutions of Higher Education," fall 1966 (unpublished); and (3) "Resident and Extension Enrollment in Institutions of Higher Education," biennially, first term 1957 through 1961.

Population on which projections are based is shown in appendix B, table B-2.



³The breakdown between degree-credit and nondegree-credit enrollment is estimated. See appendix A, "Estimation Methods."

Table 11.—Nondegree-credit enrollment in 2-year institutions of higher education, by sex, by attendance status, and by institutional control:

United States, fall 1958 to 1978

[Resident and extension opening fall enrollment]

Year (fall)	Nondegree-	Se	эx	Attendar	ice status ²	Cont	Control		
Tear (Tall)	credit enrollment ¹	Men	Women	Full-time	Part-time	Public	Private		
(1)	(2)	(3)	(4)	(6)	(6)	(7)	(8)		
1958	139,000	100,000	39,000	58,000	81,000	112,000	28,000		
1959	152,773	106,938	45,835	64,000	89,000	121,938	30,835		
1960	166,000	119,000	47,000	69,000	97,000	134,000	32,000		
1961	148,481	100,227	48,254	62,000	86,000	115,179	33,302		
1962	184,000	123,000	61,000	79,000	105,000	149,000	35,000		
1963	219,723	146,163	73,560	96,000	124,000	183,721	36,002		
1964	278,058	179,139	98,919	120,000	158,000	253,920	24,138		
1965 ,	331,515	211,793	119,722	147,000	184,000	303,374	28,141		
1966 ³	381,000	232,000	150,000	174,000	208,000	350,000	32,000		
1967 ³	437,000	262,000	176,000	203,000	234,000	405,000	32,000		
1968	502,797	308,058	194,739	236,796	266,001	477,333	25,464		
			PROJEC	TED ⁴					
1969	527,000	321,000	206,000	248,000	279,000	502,000	25,000		
1970	561,000	340,000	220,000	263,000	297,000	536,000	25.0()		
1971 ,	601,000	363,000	239,000	282,000	319,000	576,000	24,000		
1972	645,000	388,000	257,000	302,000	343,000	621,000	24,000		
1973	690,000	414,000	277,000	323,000	368,000	666,000	24.000		
1974	734,000	439,000	296,000	343,000	392,000	710,000	24,000		
1975	778,000	463,000	315,000	363,000	415,000	754,000	24,000		
1976	820,000	487,000	333,000	382,000	438,000	795,000	25,000		
1977	859,000	510,000	350,000	400,000	459,000	834,000	25,000		
1978	899,000	532,000	367,000	418,000	480,000	873,000	25,000		

¹Beginning in 196%, some students previously reported as nondegree-crodit are included with degree-credit enrollment.

For further methodological details, see appendix A, table A-1.

NOTE: Data are for 50 States and the District of Columbia for all years. Because of rounding, detail may not add to totals.

SOURCES: Enrollment data and estimates are based on U.S. Department of Health, Education, and Welfare, Office of Education circulars:
(1) "Opening (Fail) Enrollment in Higher Education," annually, 1963 through 1968;
(2) data from "Resident and Extension Enrollment in Institutions of Higher Education," fall 1966 (unpublished); and (3) "Resident and Extension Enrollment in Institutions of Higher Education," blennially, first term 1957 through 1961.

Population on which projections are based is shown in appendix B, table B-2.



Estimated prior to 1968. See appendix A,
"Estimation Methods."

The breakdown between degree-credit and nondegree-credit enrollment is estimated. See appendix A, "Estimation Methods."

The projection of total nondegree-credit enrollment

The projection of total nondegree-credit enrollment in 2-year institutions by sex and institutional control is based on the assumption that enrollment, expressed as a percentage of population aged 18-21 years, will follow the 1958-68 trend to 1978 in each enrollment category.

The projection of total nondegree-credit enrollment by attendence status is based on the assumption that in each enrollment category the ratio of full-time enrollment to total enrollment reported in the 1968 opening fall enrollment survey, with minor adjustments, will remain constant to 1978. Veterans attending college through aid provided

Veterans attending college through aid provided by the Veterans' Readjustment Benefits Act of 1966 are included in the trend projections.

Table 12.—Estimated full-time-equivalent enrollment in all institutions of higher education, by degree-credit status and institutional control:

United States, fall 1958 to 1978¹

[Resident and extension opening fall enrollment--in thousands]

Year (fall)		All students			ents taking ditable tov bachelor's nigher degr	vard or	Students in occupational or general studies programs not chiefly creditable toward a bachelor's degree		
	Total	Public	Private	Total	Public	Private	Total	Public	Private
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
 1958	2,658	1,570	1,088	2,552	1,489	1,063	106	81	25
1959	2,777	1,648	1,129	2,665	1,562	1,103	112	86	26
1960	2,954	1,760	1,194	2,835	1,667	1,168	1,19	93	26
1961	3,200	1,949	1,251	3,092	1,868	1,224	108	81	27
1962	3,455	2,145	1,310	3,322	2,041	1,281	133	104	29
1963	3,696	2,351	1,345	3,539	2,225	1,314	157	126	31
1964	4,115	2,671	1,444	3,924	2,504	1,420	191	167	24
1965	4,671	3,094	1,577	4,443	2,895	1,548	228	199	29
1986	5,070	3,398	1,672	4,792	3,154	1,637	278	243	35
1967	5,478	3,760	1,719	5,161	3,478	1,683	317	282	35
1968	5,955	4,228	1,727	5,595	3,899	1,696	360	329	31
				ROJECT	ED ¹				
1969	6,091	4,369	1,722	5,715	4,024	1,691	375	345	30
1970	6,340	4,591	1,749	5,942	4,224	1,718	397	367	30
1971	6,653	4,862	1,792	6,230	4,469	1,761	424	393	31
1972	7,007	5,164	1,843	6,555	4,742	1,812	453	422	31
1973	7,363	5,470	1,893	6,880	5,019	1,862	483	451	32
1974	7,698	5,762	1,936	7,186	5,282	1,904	511	479	32
1975	8,022	6,047	1,975	7,482	5,540	1,942	540	507	32
1976	8,321	6,315	2,006	7,754	5,781	1,973	567	534	33
1977	8,588	6,559	2,029	7,995	6,000	1,995	593	559	34
1978	8,853	6.803	2.050	8,235	6,219	2,016	618	584	34

The estimation, 1958 to 1968, and the projection of the full-time equivalent of part-time enrollment are based on the assumption that the 1964 percentages of part-time enrollment equivalent to full-time enrollment (.33 percent for degree-credit students and 28 percent for nondegree-credit students) would remain constant 1958 to 1978.

Veterans attending college through aid provided by the Veterans' Readjustment Benefits Act of 1966 are included in the trend projections.

For further methodological details, see appendix A, table A-1.

NOTE: Data are for 50 States and the District of Columbia for all years. Because of rounding, detail may not add to totals.

SOURCES: Enrollment data and estimates are based on U.S. Department of Health, Education, and Welfare, Office of Education circulars:

(1) "Opening (Fall) Enrollment in Higher Education," annually, 1958 through 1968;

(2) data from "Resident and Extension Enrollment in Institutions of Higher Education," fall 1966 (unpublished); (3) "Resident and Extension Enrollment in Institutions of Higher Education," blennially, first term 1957 through 1961; and (4) sample survey of full-time-equivalent enrollments and credit hours, fall 1964 (unpublished).



Table 13.—Summary of degree-credit enrollment in all institutions of higher education, by level and institutional type: United States, fall 1958 to 1978

[Resident and extension opening fall enrollment—in thousands]

				Leve	el and type				
Year (fall)	Total degree-credit	Resident graduate		ndergraduate professional (4		Undergraduate (2-year)			
	enrollment	(4-year) ¹	Total 1	First-time	Other ¹	Total	First-time	Other	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	
1958	3,237	312	2,539	600	1,939	386	175	211	
1959	3,377	331	2,636	640	1,996	410	182	228	
1960	3,583	356	2,776	709	2,067	451	214	237	
1961	3,860	386	2,956	775	2,181	518	244	274	
1962	4,175	422	3,163	770	2,393	590	260	329	
1963	4,495	464	3,406	775	2,631	625	272	353	
1964	4,950	517	3,722	903	2,819	711	322	389	
1965	5,526	582	4,103	1,041	3,062	841	401	441	
1966 ²	5,929	624	4,360	989	3,371	945	389	556	
1967 ²	6,391	688	4,628	992	3,636	1,075	447	628	
1968	6,928	768	4,871	1,076	3,795	1,289	554	736	
			PRO	JECTED ³					
1969	7,087	798	4,948	1,130	3,818	1,341	599	 742	
1970	7,377	844	5,116	1,189	3,927	1,417	647	770	
1971	7,743	900 -	5,334	1,245	4,089	1,509	695	814	
1972	8,157	963	5,583	1,296	4,287	1,611	741	870	
1973	8,571	1,028	5,829	1,342	4,487	1,714	785	929	
1974	8,963	1,092	6,057	1,389	4,668	1,814	830	984	
1975 . ,	9,343	1,157	6,274	1,432	4,842	1,912	874	1,038	
1976	9,693	1,219	6,469	1,463	5,006	2,005	909	1,096	
1977	10,006	1,278	6,638	1,498	5,140	2,090	948	1,142	
1978	10,318	1,339	6,803	1,544	5,259	2,176	995	1,181	

¹Estimated. See appendix A, "Estimation Methods."

The breakdown between degree-credit and non-degree-credit enrol!ment in 1966 and 1967 is estimated. See appendix A, "Estimation Methods."

The projection of undergraduate and first-professional degree-credit enrollment in 4-year institutions is the difference between projected total degree-credit enrollment in 4-year institutions shown in table 7 and resident graduate enrollment in 4-year institutions shown in table 17. Undergraduate and first-professional enrollment in 4-year institutions includes, therefore, an unknown amount of extension graduate enrollment.

The projection of undergraduate degree-credit enrollment in 2-year institutions of higher education is the same as that shown in table 8,

Veterans attending college through aid provided by the Veterans' Readjustment Benefits Act of 1966 are included in the trend projection.

For further methodological details, see appendix A. table A-1.

NOTE: Data are for 50 States and the District of Columbia for all years. Because of rounding, detail may not add to totals.

SOURCES: Enrollment data and estimates are based on U.S. Department of Health, Education, and Welfare, Office of Education publications: (1) "Opening (Fall) Enrollment in Higher Education," annually, 1958 through 1968; (2) data from "Resident and Extension Enrollment in Institutions of Higher Education," fall 1966 (unpublished); and (3) "Resident and Extension Enrollment in Institutions of Higher Education," biennially, first term 1957 through 1963.



The projection of resident graduate enrollment in 4-year institutions was made separately by sex and by institutional control and is based on the assumption that in each enrollment category the estimated proportion of total enrollment at the graduate level will continue the 1958-68 trend to 1978.

Table 14.—First-time degree-credit enrollment in all institutions of higher education, by sex., by attendance status, and by institutional control:

United States, fall 1958 to 1978

[Resident and extension opening fail enrollment]

	First-time	Se	×	Attendan	ce status ²	Cont	rol
Year (fall)	degroe-credit enrollment ¹	Men	Women	Full-time	Part-time	Public	Private
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1958	775,308	465,422	309,886	631,000	145,000	474,621	300,687
1959	821,520	487,890	333,630	672,000	150,000	501,543	319,977
1960	923,069	539,512	383,557	758,000	165,000	577,744	345,325
1961	1,018,361	591,913	426,448	840,000	178,000	648,236	370,125
1962	1,030,554	598,099	432,455	849,000	181,000	669,728	360,826
1963	1,046,417	604,232	442,135	864,000	182,000	686,861	359,556
1964	1,224,840	701,524	523,316	1,014,000	210,000	814,664	410,176
1965	1,441,822	829,215	612,607	1,192,000	250,000	990,021	451,801
1966 ³	1,378,000	787,000	591,000	1,140,000	238,000	947,000	430,000
1967 ³	1,439,000	814,000	626,000	1,182,000	257,000	1,024,000	415,000
1968	1,629,751	924,580	705,171	1,328,329	301,422	1,200,784	428,967
			PROJECT	ED ⁴			
1969	1,729,000	976,000	753,000	1,406,000	323,000	1,288,000	440,000
1970	1,836,000	1,031,000	805,000	1,489,000	346,000	1,383,000	453,000
1971	1,940,000	1,083,000	857,000	1,571,000	369,000	1,476,000	464,000
1972	2,037,000	1,133,000	904,000	1,646,000	391,000	1,565,000	473,000
1973	2,127,000	1,178,000	949,000	1,715,000	411,000	1,648,000	479,000
1974	2,219,000	1,224,000	995,000	1,786,000	432,000	1,733,000	485,000
1975	2,306,000	1,267,000	1,039,000	1,853,000	453,000	1,816,000	490,000
1976	2,373,000	1,298,000	1,074,000	1,904,000	469,000	1,882,000	491,000
1977	2,446,000	1,334,000	1,112,000	1,959,000	486,000	1,953,000	492,000
1978	2,539,000	1,383,000	1,156,000	2,032,000	508,000	2,041,000	498,000

¹Beginning in 1966, some students previously reported as nondegree-credit are included with degree-credit enrollment.

For further methodological details, see appendix A, table A-1.

NOTE: Data are for 50 States and the District of Columbia for all years. Because of rounding, detail may not add to totals.

SOURCES: Enrollment data from U.S. Department of Health, Education, and Welfare, Office of Education circulars: (1) "Opening (Fall) Enrollment in Higher Education," annually, 1958 through 1968; (2) data from "Resident and Extension Enrollment in Institutions of Higher Education," fall 1966 (unpublished); and (3) "Resident and Extension Enrollment in Institutions of Higher Education," biennially, first term 1957 through 1961.

Population on which projections are based is shown in appendix B, table B-2.



Estimated prior to 1968. See appendix A, "Estimation Methods."

The breakdown between degree-credit and nondegree-credit enrollment is estimated. See appendix A, "Estimation Methods."

The projection of first-time opening fall degreecredit enrollment in all institutions of higher education by sex and by institutional control is based on the assumption that first-time enrollment, expressed as a percentage of the population averaging 18 years of age, will follow the 1958-68 trend to 1978 in each category of enrollment.

Veterans attending college through aid provided by the Veterans' Readjustment Benefits Act of 1966 are included in the trend projections.

Table 15.—First-time degree-credit enrollment in 4-year institutions of higher education, by sex, by attendance status, and by institutional control:

United States, fall 1958 to 1978

[Resident and extension Opening fall enrollment]

	First-time	Se	×	Attendar	nce status ²	Control		
Year (fall)	degree-credit enrollment ¹	Men	Women	Full-time	Part-time	Public	Private	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	
1958	600,359	357,678	242,681	517,000	84,000	328,242	272,117	
1959	639,841	376,633	263,208	555,000	85,000	348,150	291,691	
1960	709,093	410,942	298,151	620,000	90,000	395,884	313,209	
1961	774,584	446,248	328,336	681,000	93,000	438,135	336,449	
1962	770,114	441,936	328,178	680,000	90,000	445,191	324,923	
1963	774,744	441,220	333,524	687,000	88,000	452,104	322,640	
1964	902,599	508,117	394,482	802,000	100,000	539,251	363,348	
1965	1,041,025	587,789	453,236	929,000	112,000	642,233	398,792	
1966 ³	989,000	555,000	434,000	884,000	105,000	610,000	379,000	
1967 ³	992,000	548,000	444,000	889,000	103,000	628,000	364,000	
1968	1,076,077	591,443	484,634	966,094	109,983	705,891	370,186	
			PROJECT	ED ⁴				
1969	1,130,000	616,000	514,000	1,014,000	116,000	752,000	378,000	
1970	1,189,000	643,000	546,000	1,067,000	122,000	803,000	386,000	
1971	1,245,000	667,000	578,000	1,117,000	128,000	852,000	393,000	
1972	1,296,000	690,000	606,000	1,163,000	133,000	898,000	398,000	
1973	1,342,000	709,000	632,000	1,204,000	138,000	941,000	400,000	
1974	1,389,000	729,000	660,000	1,246,000	143,000	986,000	403,000	
1975	1,432,000	746,000	686,000	1,285,000	148,000	1,028,000	404,000	
1976	1,463,000	757,000	706,000	1,312,000	151,000	1,061,000	402,000	
1977	1,498,000	770,000	728,000	1,343,000	155,000	1,097,000	401,000	
1978	1,544,000	791,000	753,000	1,385,000	160,000	1,142,000	402,000	

¹Beginning in 1966, some students previously reported as nondegree-credit are included with degree-credit enrollment.

Veterans attending college through aid provided by the Veterans' Readjustment Benefits Act of 1966 are included in the trend projections. For further methodological details, see appendix A, table A-1.

NOTE: Data are for 50 States and the District of Columbia for all years. Because of rounding. detail may not add to totals.

SOURCES: Enrollment data from U.S. Department of Health, Education, and Welfare, Office of Education circulars: (1) "Opening (Fall) Enrollment in Higher Education," annually, 1958 through 1968; (2) data from "Resident and Extension Enrollment in Institutions of Higher Education," fall 1966 (unpublished); and (3) "Resident and Extension Enrollment in Institutions of Higher Education," biennially, first term 1957 through 1961.

Population on which projections are based is shown in appendix B, table 8-2.



Estimated prior to 1968. See appendix A, "Estimation Methods,"

³The breakdown between degree-credit and nondegree-credit enrollment is estimated. See appendix _A, "Estimation Methods."

The projection of first-time opening fall degreecredit enrollment in 4-year institutions of higher education by sex and by institutional control is based on the assumption that first-time enrollment, expressed as a percentage of the population averaging 18 years of age, will follow the 1958-68 trend to 1978 in each category of enrollment.

Table 16.—First-time degree-credit enrollment in 2-year institutions of higher education, by sex, by attendance status, and by institutional control:

United States, fall 1958 to 1978

[Resident end extension opening fall enrollment]

	First-time	Sex	•	Attendan	ce status ²	Cont	rol
Year (fall)	degree-credit enrollment ¹	Men	Women	Full-time	Part-time	Public	Private
(1)	(2)	(3)	(4)	(6)	(6)	(7)	(8)
1958	174.949	107,744	67,205	114,000	61,000	146,379	28,570
1959	181,679	111,257	70,422	117,000	65,000	153,393	28,286
1960	213,976	128,570	85,406	139,000	75,000	181,860	32,116
1961	243,777	145,665	98,112	159,000	85,000	210,101	33,676
1962	260,440	156,163	104,277	169,000	91,000	224,537	35,903
1963	271,673	163,062	106,611	178,000	94,000	234,757	36,916
1964	322,241	193,407	128,834	212,000	110,000	275,413	46,828
1965	400.797	241.426	159,371	263,000	138,000	347,788	53,009
1966	389,000	232,000	157,000	255,000	134,000	337,000	51,000
1967 ³	447,000	266,000	181,000	292,000	155,000	396,000	51,000
1968	553,674	333,137	220,537	362,235	191,439	494,893	58,781
			PROJECT	ED ⁴			
1969	599,000	360,000	239,000	391,000	207,000	536,000	63,000
1970	647,000	388,000	259,000	423,000	225,000	580,000	67,000
1971	695,000	416,000	279,000	454,000	242,000	624,000	71,000
1972	741,000	443,000	298,000	483,000	258,000	666,000	75,000
1973	785,000	469,000	316,000	512,000	273,000	706,000	79,000
1974	830,000	495,000	335,000	541,000	289,000	748,000	82,000
1975	874,000	520,000	353,000	569,000	305,000	788,000	86,000
1976	909,000	541,000	368,000	592,000	318,000	821,000	89,000
1977		564,000	384,000	617,000	331,000	856,000	92,00
1978		592,000	402,000	647,000	348,000	899,000	96,000

¹⁸eginning in 1966, some students previously reported as nondegree-credit are included with degree-credit enrollment.

For further methodological details, see appendix A, table A-1.

NCTE: Data are for 50 States and the District of Columbia for all years, Secause of rounding, detail may not add to totals.

SOURCES: Enrollment data from U.S. Department of Health, Education, and Welfare, Office of Education circulars: (1) "Opening (Fall) Enrollment in Higher Education," annually, 1958 through 1968; (2) data from "Resident and Extension Enrollment in Institutions of Higher Education," fall 1966 (unpublished); and (3) "Resident and Extension Enrollment in Institutions of Higher Education," biennially, first term 1957 through 1961.

Population on which projections are based is shown in appendix 8, table 8-2.



²Estimated prior to 1968. See appendix A, "Estimation Methods."

³The breakdown between degree-credit and nondegree-credit enrollment is estimated. See appendix A, "Estimation Methods."

The projection of first-time opening fall degreecredit enrollment in 2-year institutions of higher education by sex and by institutional control is based on the assumption that first-time enrollment, expressed as a percentage of the population averaging 18 years of age, will follow the 1958-68 trend

expressed as a percentage of the population events ing 18 years of age, will follow the 1958-68 trend to 1978 in each category of enrollment.

Veterans attending college through aid provided by the Veterans' Readjustment Senefits Act of 1966 are included in the trend projections.

Table 17.-Estimated graduate enrollment in 4-year institutions of higher education, by sex, by attendance status, and by institutional control: United States, fall 1958 to 19781

[Resident opening fall enrollment—in thousands]

	Resident graduate	Se	×	Attendar	ice status 1	Cont	trol
Year (fall)	degree-credit enroilment ¹	Men	Women	Full-time	Part-time	Public	Private
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1958	312	225	87	124	189	161	151
1959	331	237	94	131	200	172	159
1960	356	253	103	143	213	187	169
1961	386	273	113	162	224	208	179
1962	422	298	124	177	245	234	189
1963	464	327	137	188	276	267	196
1964	517	363	154	214	303	305	212
1965	582	409	· 173	254	328	352	230
1966	624	436	188	278	346	380	244
1967	688	453	236	312	377	435	254
1968	768	488	280	335	433	507	261
			PROJECT	ED ²			
1969	798	502	296	347	451	535	263
1970	844	526	318	367	477	575	269
1971	900	555	345	390	510	622	278
1972	963	588	375	417	547	675	289
1973	1,028	622	406	444	594	729	299
1974	1,092	655	437	471	622	784	309
1975	1,157	688	469	497	659	839	317
1976	1,219	719	500	52 3	696	894	325
1977	1,278	748	530	547	730	947	331
1978	1,339	<i>7</i> 78	561	573	766	1,001	337

¹For method of estimating total graduate enrollment and graduate enrollment by attendance status, see appendix A, "Estimation Methods."

The projection of graduate enrollment by attendance status is based on the assumption that in each enrollment category the ratio of full-time graduate enrollment to total graduate enrollment, estimated for 1968, with minor adjustments, will remain constant to 1978.

Veterans attending college through aid provided by the Veterans' Readjustment Benefits Act of 1966 are included in the trend projection.

For further methodological details, see appendix

A, table A-1.

NOTE: Date are for 50 States and the District of Columbia for all years. Because of rounding, detail may not add to totals.

SQURCES: Enrollment data and estimates are based on U.S. Department of Health, Education, on U.S. Department of Health, Education, and Welfare, Office of Education publications: (1) "Opening (Fall) Enrollment in Eigher Education," annually 1958 through 1968; (2) data from "Resident and Extended in the Education of Education," annually 1958 through 1968; (2) data from "Resident and Extended in the Education," annually 1958 through 1968; (2) data from "Resident and Extended in the Education," annually 1958 through 1958; (2) data from "Resident and Extended in the Education," annually 1958 through 1958; (2) data from "Resident and Extended in the Education in the Educa sion Enrollment in Institutions of Higher Education," fall 1966 (unpublished); (3) "Resident and Extension Enrollment in Institutions of Higher Education," biennially, First term 1957 through 1963; (4) "Students Enrolled for Advanced Degrees in Selected Fields of Study, Fall 1968: Advance Estimates, Preliminary, March 3, 1969"; and (5) "Students Enrolled for Advanced Degrees: Part A — Summary Data, Fall 1967."

²The projection of graduate enrollment by sex and by control of institution is based on the assumption that in each enrollment category the estimated proportion of total enrollment at the graduate level will continue the 1958-68 trend to 1978.

Table 18.—Estimated undergraduate and first-professional degree-credit enrollment in all institutions of higher education, by sex, by attendance status, and by institutional control: United States, fall 1958 to 1978¹

[Resident and extension opening fall enrollment—in thousands]

W (e.m)	Undergraduate	Se	×	Attendan	ce status	Cont	rol
Year (fall)	degree-credit - enrollment	Men	Women	Full-time	Part-time	Public	Private
(1)	(2)	(3)	(4)	(6)	(6)	(7)	(8)
1958	2,924	1,873	1,051	2,091	833	1,733	1,192
1959	3,046	1,924	1,122	2,183	863	1,812	1,234
1960	3,227	2,004	1,223	2,323	904	1,929	1,298
1961	3,474	2,135	1,339	2,552	922	2,121	1,353
1962	3,753	2,290	1,463	2,725	1,028	2,340	1,413
1963 , ,	4,031	2,446	1,585	2,881	1,151	2,581	1,450
1964	4,433	2,670	1,764	3,204	1,229	2,875	1,559
1965 , ,	4,945	2,966	1,979	3,656	1,289	3,273	1,672
1966	5,304	3,141	2,163	3,954	1,351	3,560	1,744
1967 ,	5,703	3,369	2,334	4,243	1,460	3,914	1.789
1968 , ,	6,160	3,631	2,529	4,603	1,557	4,385	1,775
			PROJEC	TED ¹		_	
1969	6,289	3,685	2,603	4,693	1,596	4,520	1,769
1970	6,533	3,807	2,726	4,869	1,663	4,738	1,795
1971	6,843	3,965	2,878	5,094	1,749	5,005	1,838
1972	7,193	4,145	3,048	5,349	1,844	5,304	1,889
1973	7,544	4,327	3,217	5,603	1,940	5,605	1,939
1974	7,871	4,493	3,379	5,840	2,031	5,890	1,981
1975	8,186	4,651	3,535	6,068	2,118	6,168	2.018
1976	8,474	4,795	3,679	6,276	2,199	6,426	2,043
1977	8,728	4,917	3,811	6,457	2,271	6,659	2,069
1978	8,979	5,040	3,939	6,637	2,342	6,891	2,588

The estimation and projection of undergraduate degree-credit enrollment in all institutions, by sex, attendance status, and institutional control, is calculated by summing the above estimated and projected categories of degree-credit enrollment in 2-year institutions (table 8) and corresponding categories of undergraduate degree-credit enrollment in 4-year institutions (table 19).

For further methodological details, see appendix A, table A-1.

NDTE: Data are for 50 States and the District of Columbia for all years. Because of rounding, detail may not add to totals.

SDURCES: Enrollment data and estimates are based on U.S. Department of Health, Education, and Welvare, Office of Education publications: (1) "Depaing (Faii) Enrollment in Higher Education," annually, 1958 through 1968; (2) data from "Resident and Extension Enrollment in Institutions of Higher Education," fall 1966 (unpublished); (3) "Resident and Extension Enrollment in Institutions of Higher Education," biennially, first term 1957 through 1963; (4) "Students Enrolled for Advanced Degrees in Selected Fields of Study, Fall 1968: Advance Estimates, Preliminary, March 3, 1969"; and (5) "Students Enrolled for Advanced Degrees: Part A — Summary Data, Fall 1967."



Table 19.—Estimated undergraduate and first-professional degree-credit enrollment in 4-year institutions of higher education, by sex, by attendance status, and by institutional control: United States, fall 1958 to 1978¹

[Resident and extension opening fall enrollment—in thousands]

	Undergraduate	Se	×	Attenda	nce status	Control		
Year (fall)	degree-credit - enrollment	Men	Women	Full-time	Part-time	Public	Private	
(1)	(2)	(3)	(4)	(6)	(6)	(7)	(8)	
1958	2,539	1,625	914	1,876	662	1,402	1,137	
1959	2,636	1,664	972	1,957	679	1,456	1,181	
1960	2,776	1,722	1,054	2,077	699	1,537	1,239	
1961	2,956	1,815	1,141	2,258	699	1,665	1,291	
1962	3,163	1,924	1,239	2,408	7 55	1,821	1,342	
1963	3,406	2,059	1,347	2,553	853	2,030	1,377	
1964	3,722	2,230	1,492	2,808	914	2,254	1,469	
1965	4,103	2,444	1,659	3,160	943	2,535	1,569	
1966 :	4,360	2,564	1,796	3,390	969	2,721	1,639	
1967	4,628	2,716	1,912	3,626	1,002	2,949	1,680	
1968	4,871	2,849	2,022	3,864	1,007	3,216	1,655	
			PROJEC	TED ¹				
1969	4,948	2,873	2,075	3,925	1,023	3,304	1,644	
1970	5,116	2,951	2,166	4,058	1,058	3,452	1,664	
1971	5,334	3,055	2,280	4,231	1,103	3,636	1,698	
1972	5,583	3,175	2,407	4,428	1,155	3,841	1,741	
1973	5,829	3,296	2,534	4,624	1,206	4,048	1,782	
1974	6,057	3,403	2,654	4,804	1,253	4,242	1,815	
1975	6,274	3,505	2,769	4,976	1,298	4,430	1,844	
1976	6,469	3,595	2,875	5,131	1,339	4,603	1,866	
1977	6,638	3,667	2,971	5,264	1,374	4,758	1,879	
1978	6,803	3,740	3,063	5,394	1,408	4,911	1,892	

¹The estimation and projection of undergraduate degree-credit enrollment in 4-year institutions, by sex, attendance status, and institutional control, is calculated by subtracting estimated and projected graduate enrollment in the above categories (table 17) from corresponding categories of estimated and projected total degree-credit enrollment in 4-year institutions (table 7).

For further methodological details, see appendix A, table A-1.

NOTE: Data are for 50 States and the District of Columbia for all years. Because of rounding, detail may not add to totals.

SOURCES: Enrollment data and estimates are based on U.S. Department of Health, Education,

and Welfare, Office of Education publications: (1) "Opening (Fall) Enrollment in Higher Education," annually, 1958 through 1968; (2) data from "Resident and Extension Enrollment in Institutions of Higher Education," fall 1966 (unpublished); (3) "Resident and Extension Enrollment in Institutions of Higher Education," blennially, first term 1957 through 1963; (4) "Students Enrolled for Advanced Degrees in Selected Fields of Study, Fall 1968: Advance Estimates, Preliminary, March 3, 1969"; and (5) "Students Enrolled for Advanced Degrees: Part A — Summary Data, Fall 1967."

CHAPTER III

High School Graduates and Earned Degrees

Frances E. Ryan and Nadine C. Brown

High school graduates (table 20)

The number of high school graduates increased from 1.6 million in the school year 1958-59 to an estimated 2.8 million in 1968-69 and is expected to increase to 3.8 million in 1978-79. These figures include graduates from all regular public and nonpublic high schools in the United States and, unlike the data on enrollments in chapter II, graduates from the following schools not in the regular school system: Federal schools for Indians, schools on Federal installations, residential schools for exceptional children, and subcollegiate departments of colleges and universities. These schools represent about 1 percent of the public school graduates and about 3 percent of the nonpublic school graduates.

Two main sources form the basis for the figures quoted above. Graduates of regular public schools are reported each fall by the State departments of education. Graduates of regular nonpublic schools are reported in surveys of the schools by the Office of Education. Other graduates included above are estimated from various auxiliary sources.

Projected high school graduates by sex and by control of school are shown in table 20. The projection of public high school graduates to 1978-79 is based on the assumption that, for boys and girls separately, high school graduates expressed as a percentage of the 18-year-old population will follow the 1958-59 to 1967-68 trend. The projection of nonpublic high school graduates assumes little or no increase in the number of graduates in line with similar assumptions regarding nonpublic enrollments.

Girls make up slightly more than half of the graduates at present, but the number of boys graduating has been increasing faster than the number of girls. By the early seventies, the number of boys graduating is expected to exceed the number of girls. The percentage of the 18-year-old population graduating will still be slightly higher for girls.

Earned degrees, by level and sex (table 21)

Earned-degree reports from individual degree-granting institutions of higher education are received each fall by the Office of Education. These provide information on the number of degrees granted by level and sex and by field of concentration. They cover degrees granted during the academic year ending in June and include degrees earned in the prior summer, awarded too late to be included with the June graduates of that year.

Three principal levels have been reported and projected: bachelor's, including first-professional degrees; master's degrees; and doctorates. Since 1960-61, first-professional degrees have been reported separately from bachelor's degrees, but the definitions of what constitutes a first-professional degree have not been uniform throughout the period. For that reason, no attempt has been made to project these degrees separately. (See "Changes in Degree-Level Definitions," appendix A, for a comparison of these definitions.) Recently, however, a stable definition of what constitutes a first-professional degree has been established, and reporting will become reasonably uniform in the future. It is hoped that by next year a workable basis for separating these degrees from bachelor's degrees reported in the past can be developed and that separate projections can be made for all first-professional degrees and master's degrees.

In the present report, ambiguities in the definitions of first-professional degrees in library science and social work have been eliminated, and comparable series for removing these degrees from the first level and adding them to master's degrees have been established. This made it possible to include them with master's degrees in the present report, even though in the past



they were reported with first-professional degrees. The broken series shown in the tables last year has thus been eliminated. For methods of estimating master's degrees in library science and social work, see appendix A, "Estimation Methods."

Based on reports of degrees through 1967-68, the total number of bachelor's and first-professional degrees granted each year rose from 380,000 in 1958-59 to an estimated 755,000 in 1968-69 and is expected to be 1,056,000 in 1978-79; the number of master's degrees . 3se from 72,500 in 1958-59 to an estimated 188,600 in 1968-69, and is expected to reach 368,400 in 1978-79; and the annual output of doctorates increased from 9,400 in 1958-59 to an estimated 26,100 in 1968-69, and is expected to be 57,000 in 1978-79.

The projected degrees by level and sex are shown in table 21. Each level was projected separately for men and for women. The main assumption underlying these projections is that the relationships between college-age population and the number of degrees granted at each of the three levels during the period 1969-70 to 1978-79 will continue the 1958-59 through 1967-68 trend. The trend is for an increasing percentage of the college-age population to complete undergraduate requirements and go on for advanced degrees.

In the last 2 years, this trend has accelerated and projections of degrees by level—especially master's and doctor's degrees—based on the trend from 1957-58 thru 1965-66 (the last reported year available when the 1968 projections were made) have fallen far short of predicting the actual number of degrees that were granted.

Two additional annual reports on earned degrees conferred (1966-67 and 1967-68) were available this year for making projections. In addition to showing the increases in master's degrees and doctorates greater than were projected last year, the 1966-67 and 1967-68 reports contained new definitions that reclassified master's degrees that had formerly been considered first-professional degrees and added them to master's degree totals. The change widened still further the difference between reported master's degrees and the 1968 projections of these degrees.

This year, a different population base was used for projecting degrees. This population is expected to be more sensitive to changes in the size of the population groups which contribute the most students as candidates for degrees. See appendix A, "Estimation Methods: Composite Population Estimates."

Earned degrees, by level and field (tables 22-25)

The field presented are divided into two main groups at each level. These groups are (a) natural sciences and related professions and (b) social sciences, humanities, and related professions. The fields included in both groups and the percentage distribution of degrees by 'evel and field for the years 1958-59, 1968-69, and 1978-79 are shown in table 22.

The projected number of earned degrees by field are shown in tables 23, 24, and 25, each for one of the three levels. These projections (with the exception of first-professional degrees in the health fields) are based on the assumption that the percentage distribution of degrees by field for each level will continue the 1958-59 to 1967-68 trend. For example, if the proportion of total degrees granted in a particular field has been increasing, it is assumed that it will continue to increase. The proportions thus projected, which are summarized in table 22, were applied to the projected total number of degrees for the corresponding level shown in table 21. Separate projections were made for men and for women.

First-level degrees in the health fields were projected by the Health Manpower Statistics Branch, Health Statistics Division, National Center for Health Statistics. They were based on estimates of expanding facilities for training, together with data on student applications in excess of present capacity. These subject fields were eliminated from the Office of Education data before its projections were made. The projected health fields were included in the final table.



First-level degrees, by field (tables 22, 23)

In 1958-59, almost one-third of all first-level degrees (bachelor's and first-professional degrees) were awarded in the fields of study constituting the natural sciences and related professions. This proportion dropped to less than one-fourth in 1958-59 and 1968-69, with of course a proportionate increase for the social sciences, humanities, and related professions. The total number of first-level degrees granted in the natural sciences rose from 112,000 in 1958-59 to an estimated 171,000 in 1968-69 and is expected to be 237,000 in 1978-79. First-level degrees granted in the social sciences, humanities, and related professions rose from 268,000 in 1958-59 to an estimated 584,000 in 1968-69 and are expected to total 819,000 in 1978-79.

Numbers of first-level degrees by the field in which they were awarded are shown in table 23. While total natural sciences and total social sciences and humanities were each projected to rise approximately 40 percent between 1968-69 and 1978-79, the combined fields of engineering and physical sciences were projected, on the basis of 1958-59 to 1967-68 trends, to rise only 8 percent.

Second-level degrees, by field (tables 22, 24)

The proportion of second-level degrees (master's) awarded in the natural sciences and related professions is expected to remain about the same to 1978-79 at a little less than one-fourth of all second-level degrees. The total number of these degrees awarded in the natural sciences and related professions rose from 17,000 in 1958-59 to an estimated 42,000 in 1968-69 and is expected to be 89,000 by 1978-79. Second-level degrees in the group of fields composed of the social sciences, humanities, and related professions rose from 55,000 in 1958-59 to an estimated 147,000 in 1968-69 and are expected to rise to 279,000 by 1978-79.

Second-level degrees by the fields in which they were awarded are shown in table 24. These degrees are projected to rise substantially in nearly all fields, but master's degrees in the physical sciences are projected to rise less than in any other field except philosophy and religion together, and education.

Master's degrees in education are expected to increase only moderately between 1968-69 and 1978-79, mainly because the number of degrees in education does not reflect the total number of persons preparing to teach. Prospective teachers earning degrees with majors in subject fields such as mathematics, sciences, English, and history are counted in the appropriate subject fields rather than in education. The actual number of prospective teachers with majors in subject fields has shown large increases recently.

Doctor's degrees, by field (tables 22, 25)

Almost one-half of all doctor's (except first-professional) degrees awarded in 1968-69 were in the subject fields which make up the natural sciences and related professions. This proportion is expected to rise to 53 percent by 1978-79. The remaining doctor's will be awarded in the group classified as social sciences, humanities, and related professions. The total number of doctor's granted in the natural sciences and related professions rose from 4,400 in 1958-59 to an estimated 12,800 in 1968-69 and is expected to be 30,440 in 1978-79. Doctor's degrees granted in the social sciences, humanities, and related professions rose from 4,960 in 1958-59 to an estimated 13,300 in 1968-69 and are expected to be 26,560 by 1978-79.

Doctor's degrees by area of specialization are shown in table 25. The two fastest growing subject fields were engineering and mathematics including statistics. At this level, in contrast to the first- and second-degree levels, increases in the natural science fields (mainly in mathematics and engineering) were greater than those in the social sciences and humanities.



Table 20.—High school graduates, by sex and by institutional control: United States, 1958-59 to 1978-79

(In thousands)

	Total blob	Se	×	C	ontrol
Year	Total high school graduates ¹	Boys	Girls	Public	Private (estimated)
(1)	(2)	(3)	(4)	(5)	(6)
1958-59	1,639	790	849	1,447	192
1959-60	1,864	898	966	1,633	² 231
1960-61	1,971	958	1,013	1,732	239
1961-62	1,925	941	984	1,685	240
1962-63	1,950	959	991	1,717	² 233
1963-64	2,290	1,123	1,167	2,015	² 275
1964-65	2,665	1,314	1,351	2,366	² 298
1965-66	2,672	1,326	1,346	2,374	298
1966-67	2,680	1,332	1,348	2,381	298
1967-68	2,702	1,341	1,360	2,402	300
1968-69 ³	2,839	1,408	1,431	2,529	310
	PF	ROJECTED ⁴			
1969-70	2,969	1,479	1,490	2,649	320
1970-71	3,094	1,542	1,552	2,774	320
1971-72	3,205	1,601	1,604	2,885	320
1972-73	3,305	1,654	1,651	2,985	320
1973-74	3,408	1,707	1,701	3,088	320
1974-75	3,504	1,757	1,747	3,184	320
1975-76	3,571	1, <u>7</u> 93	1,778	3,251	320
1976-77	3,646	1,833	1,812	3,326	320
1977-78	3,748	1,891	1,857	3,428	320
1978-79	3,773	1,908	1,865	3,453	320

¹ Includes regular public and nonpublic schools, residential schools for exceptional children, sub-collegiate departments of institutions of higher education, Federal schools for Indians, and schools on Federal installations. Excludes equivalency certificates. More than 99 percent of public school graduates and 97 percent of nonpublic school graduates are graduates of regular day schools.

Actual data from Office of Education surveys.

The projection of nonpublic high school graduates is based on the assumptions: (1) the number of nonpublic high school graduates will remain approximately the same throughout the projection period; and (2) the percent of boys among nonpublic high school graduates (48.1 percent in 1964-65) will remain constant to 1978-79.

For further methodological details, see appendix A, table A-2.

NOTE: Data are for 50 States and the District of Columbia for all years. Because of rounding, detail may not add to totals.

SOURCES: High school graduate data and estimates ES: High school graduate data and estimates are based on U.S. Department of Health, Education, and Welfare, Office of Education publications: (1) "Statistics of Public Schools," annually, fall 1964 through 1968; (2) "Statistics of State School Systems," 1957-58 and 1959-60; (3) "Statistics of Nannually, and Secondary, a Nonpublic Elementary and Secondary Schools, 1965-66"; and (4) "Nonpublic School Enrollments in Grades 9-12, Fall 1964, and Graduates, 1963-64."



³Estimated.

⁴The projection of public high school graduates is based on the assumptions: (1) The number of boys graduating, expressed as a percentage of the number of boys in the population 18 years of age, will follow the 1958-59 to 1967-68 trend; and (2) the number of girls graduating, expressed as a percentage of the number of girls in the population 18 years of age, will follow the 1958-59 to 1967-68 trend.

Table 21.—Earned degrees, by level and by sex of student: United States, 1958-59 to 1978-79

	Bache profes	elor's and fi sional degr	rst- ees 1	Mas	Master's degrees ¹			Doctor's degrees (except first-professional) ²		
Year	Total	Men	Women	Total	Men	Women	Total	Men	Women	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	
1958-59	379,931	252,517	127,414	72,532	48,360	24,172	9,360	8,371	989	
1959-60	389,183	252,996	136,187	77,692	51,966	25,727	9,829	8,801	1,028	
1960-61	395,203	252,976	142,227	81,735	55,368	26,367	10,575	9,463	1,112	
1961-62	414,275	259,376	154,899	88,426	59,841	28,585	11,622	10,377	1,245	
1962-63	443,502	271,721	171,781	95,486	64,359	31,127	12,822	11,448	1,374	
1963-64	494,174	296,501	197,673	105,530	70,514	35,016	14,490	12,955	1,535	
1961-65	530,054	316,088	213,966	117,101	77,742	39,359	16,467	14,692	1,775	
1965-66	551,040	328,853	222,187	140,555	93,063	47,492	18,237	16,121	2,116	
1966-67	590,548	353,351	237,197	157,706	103,090	54,616	20,617	18,163	2,454	
1967-68	666,710	390,507	276,203	176,749	113,519	63,230	23,089	20,183	2,906	
1968-69 ³	755,000	434,000	321,000	188,600	121,600	67,000	26,100	22,800	3,300	
				ROJECTE	D ⁴					
1969-70	772,000	444,000	328,000	211,400	135,100	76,300	29,000	25,400	3,600	
1970-71	801,000	459,000	342,000	244,300	155,600	88,700	30,800	27,100	3,800	
1971-72	825,000	470,000	355,000	255,800	164,600	91,100	33,200	29,200	4,000	
1972-73	859,000	484,000	375,000	270,700	175,500	95,100	37,200	32,600	4,600	
1973-74	890,000	494,000	396,000	284,500	185,500	99,000	43,100	37,700	5,400	
1974-75	928,000	509,000	419,000	301,700	197,000	104,800	45,600	40,000	5,600	
1975-76	963,000	522,000	440,000	317,500	206,800	110,700	48,700	42,900	5,900	
1976-77	997,000	537,000	460,000	336,100	218,800	117,300	51,600	45,500	6,100	
1977-78	1,029,000	549,000	480,000	354,400	230,800	123,600	55,000	48,400	6,500	
1978-79	1,056,000	562,000	494,000	368,400	240,300	128,100	57,000	50,200	6,800	

Beginning in 1965-66, all master's degrees, whether considered first-professional or not are reported as master's degrees rather than first-

professional degrees.

The following specified degrees are reported as first-professional: Dentistry (D.D.S. or D.M.D.), law (LL.3. or J.D.), medicine (M.D.), theology (B.D.), veterinary medicine (D.V.M.), chiropody or podiatry (D.S.C. or D.P.), optometry (D.D.), and osteopathy (D.D.).

Doctor's degrees include the Ph.D. in any field as well as such degrees as doctor of education, doctor of juridical science, and doctor of public health (preceded by professional degree in medi-cine or sanitary engineering). They exclude degrees defined as first-professional, such as doctor of jurisprudence, doctor of medicine, doctor of dental surgery, doctor of veterinary medicine, and doctor of divinity.

≅stimated.

the 1958-59 to 1967-68 trends. (A composite population representative of age at graduation was used as base for projecting with a timelag of 2 years from the bachelor's degree to the master's degree and of 3 additional years from the master's degree to the doctor's degree. For population used and estimation details, see appendix B, table

For further methodological details, see appendix A, table A-2.

NDTE: Data include 50 States and the District of Columbia for all years. Because of rounding, detail may not add to totals.

SDURCES: Degree data from U.S. Department of Health, Education, and Welfare, Office of Education publications on "Earned Degrees Conferred by Institutions of Higher Education," 1958-59 through 1967-68.



The projection of earned degrees is based on the assumption that the percentage of degrees to population for each level and sex will continue

Table 22.—Percentage distribution of earned degrees, by field of study and level: United States, 1958-59 to 1978-79

PROFESSIONS
RELATED
AND
SCIENCES /
NATURAL
Ą

Year	Total number of degrees, all fields	Total natural sciences	Mathematics and statistics	Engineering	Physical sciences	Biological sciences	Agriculture and forestry	Health 4 professions	Science, general program
(1)	(2)	(3)	(4)	(5)	(9)	(2)	(8)	(6)	(10)
			BACHELOR	BACHELOR'S AND FIRST-PROFESSIONAL	OFESSIONAL				
1958-59	379,931	29.4	2.4	10.0	4.1	4.0	2.1	6.4	. 0.5
1968-695	755,000	22.7	ထွ	5.2	2.8	4.9	1.3	4.3	4.
1978-79 ⁶	1,056,000	22.4	5.3	.4.5	1.7	5.8	9.	4.1	4
				MASTER'S					
1958-59	72,532	23.6	2.1	9.3	4.4	2.8	2.2	2.4	ιť
1968-69 ⁵	188,600	22.3	3.6	8.7	3.0	3.2	1.2	2.0	ō.
1978-79 ⁶	368,400	24.2	4.8	6.6	2.1	3.8	1.1	1.6	ωį
			ростов	DOCTOR'S (except first-professional)	ofessional)				
1958-59	9,360	47.0	3.0	7.6	19.4	11.2	**	1.6	۳.
1968-695	26,100	49.0	4.4	13.4	15.3	12.0	2,8	1.0	o:
1978-79°	57,000	53.4	6.4	20.8	12.8	10.9	1.7	.7	·



B. SOCIAL SCIENCES, HUMANITIES, AND RELATED PROFESSIONS

11 12 13 14 15 15 14 15 15 15 15	Year	Total number of degrees	Total social sciences and humanities	Fine arts 7	Philosophy and religion	English and journalism	Foreign languäges	Psychology	Social sciences	Education	Library science	Social work 11	Other ¹²
BACHELOR'S AND FIRST-PROFESSIONAL 379,931 70.6 5.7 1.8 5.5 1.2 1.9 12.7 18.3 0.1 1,056,000 77.6 6.4 1.4 8.2 3.1 3.7 18.7 16.0 .1 1,056,000 77.6 6.3 1.0 10.7 5.3 4.9 23.2 12.0 .1 1,056,000 77.6 6.1 1.0 10.7 5.3 4.9 23.2 12.0 .1 1,056,000 77.7 6.1 1.0 5.0 3.0 2.5 9.4 30.9 3.1 188,600 77.7 6.1 1.0 5.0 3.0 2.5 9.4 30.9 3.1 368,400 75.8 6.0 .6 .6 6.7 4.9 3.3 12.2 18.7 3.4 1 2.5 6.0 .6 .7 4.9 3.3 12.2 18.7 3.4 3.4 1 <t< td=""><td>(1)</td><td>(2)</td><td>(3)</td><td>(4)</td><td>(9)</td><td>(9)</td><td>(7)</td><td>(8)</td><td>(6)</td><td>(10)</td><td>(11)</td><td>(12)</td><td>(13)</td></t<>	(1)	(2)	(3)	(4)	(9)	(9)	(7)	(8)	(6)	(10)	(11)	(12)	(13)
379,931 70.6 5.7 1.8 5.5 1.2 1.9 12.7 18.3 0.1 755,000 77.3 6.4 1.4 8.2 3.1 3.7 18.7 16.0 .1 1,056,000 77.6 6.3 1.0 10.7 5.3 3.9 12.0 12.0 .1 1,056,000 77.6 6.3 1.0 10.7 6.3 1.0 7.0 7.0 12.0 .1 1,253 72,532 76.4 6.2 1.3 3.9 1.5 1.7 7.6 39.4 2.2 1,18,600 77.7 6.1 1.0 5.0 3.0 2.5 9.4 30.9 3.1 1,18,600 5.3 6.0 6.7 4.9 3.3 12.2 18.7 3.4 1,19 5.0 5.0 6.7 4.9 3.3 12.2 18.7 3.4 1,10 5.10 5.0 5.0 5.4 5.4 3.4					BACHELO	OR'S AND FI	RST-PROFES	SIONAL					
755,000 77.3 6.4 1.4 8.2 3.1 3.7 18.7 16.0 .1 1,056,000 77.6 6.3 1.0 10.7 5.3 4.9 23.2 12.0 .1 72,532 76.4 6.2 1.3 3.9 1.5 1.7 7.6 30.9 3.1 188,600 77.7 6.1 1.0 5.0 3.0 2.5 9.4 30.9 3.1 368,400 75.8 6.0 .6 6.7 4.9 3.3 12.2 18.7 3.4 1.2 75.8 6.0 .6 6.7 4.9 3.3 12.2 18.7 3.4 2.2 4.1 2.6 6.7 4.9 3.3 12.2 18.7 3.4 2.5 5.0 5.0 4.1 2.6 6.8 12.2 18.7 3.4 2.5 5.0 5.0 4.1 2.6 6.8 12.2 <td< td=""><td>958-59</td><td>379,931</td><td>70.6</td><td>5.7</td><td>1.8</td><td>5.5</td><td>1.2</td><td>1.9</td><td>12.7</td><td>18.3</td><td>0.1</td><td>0.1</td><td>23.3</td></td<>	958-59	379,931	70.6	5.7	1.8	5.5	1.2	1.9	12.7	18.3	0.1	0.1	23.3
1,056,000 77,6 6.3* 1.0 10.7 5.3 4.9 23.2 12.0 .1 72,532 76,4 6.2 1.3 39 1.5 1.7 7.6 39.4 2.2 188,600 77,7 6.1 1.0 5.0 3.0 2.5 9.4 30.9 3.1 268,400 75.8 6.0 .6 6.7 4.9 3.3 12.2 18.7 3.4 26,100 53.0 3.8 2.2 4.1 2.6 6.8 12.2 18.7 3.4 26,100 51.0 3.0 2.2 4.1 2.6 6.8 12.3 15.7 1 57,000 46.6 2.4 1.5 4.6 3.4 6.2 1.1 13.6 1	368-69 ₅	755,000	77.3	6.4	1.4	8.2	3.1	3.7	18.7	16.0	-	4.	19.1
MASTER'S 72,532 76.4 6.2 1.3 3.9 1.5 1.7 7.6 39.4 2.2 188,600 77.7 6.1 1.0 5.0 3.0 2.5 9.4 30.9 3.1 268,400 75.8 6.0 6. 6.7 4.9 3.3 12.2 18.7 3.4 DOCTOR'S (except first-professional) 9,360 53.0 3.8 2.2 4.1 2.6 6.8 12.9 15.9 1.1 26,100 51.0 3.0 2.2 4.4 3.1 6.3 12.3 15.7 .1 57,000 46.6 2.4 1.5 4.6 3.4 6.2 11.1 13.6 .1	•	1,056,000	77.6	6.3	1.0	10.7	5.3	4.9	23.2	12.0	-	4.	13.7
72,532 76.4 6.2 1.3 3.9 1.5 1.7 7.6 39.4 2.2 1.0 6.1 1.0 5.0 3.0 2.5 9.4 30.9 3.1 1.0 77.7 6.1 1.0 5.0 3.0 2.5 9.4 30.9 3.1 1.0 768,400 75.8 6.0 6.7 4.9 6.8 12.2 18.7 3.4 1.0 9,360 53.0 3.8 2.2 4.1 2.6 6.8 12.9 15.9 .1 26,100 51.0 3.0 2.2 4.4 3.1 6.3 12.3 15.7 .1 57,000 46.6 2.4 1.5 4.6 3.4 6.2 11.1 13.6 .1						MASTE	R'S						
188,600 77.7 6.1 1.0 5.0 3.0 2.5 9.4 30.9 3.1 3.1 368,400 75.8 6.0 6.0 6.7 4.9 3.3 12.2 18.7 3.4 3.4 3.1 DOCTOR'S (except first-professional) 9,360 53.0 3.8 2.2 4.1 2.6 6.8 12.9 15.9 1.1 26,100 51.0 3.0 2.2 4.4 3.1 6.3 12.3 15.7 .1 57,000 46.6 2.4 1.5 4.6 3.4 6.2 11.1 13.6 .1	958-59	72,532	76.4	6,2	1.3	3.9	7.5	1.7	7.6	39.4	2.2	2.4	10.1
368,400 75.8 6.0 6 6.7 4.9 3.3 12.2 18.7 3.4 DOCTOR'S (except first-professional) DOCTOR'S (except first-professional) DOCTOR'S (except first-professional) 22, 4.1 2.6 6.8 12.9 15.9 .1 26,100 51.0 3.0 2.2 4.4 3.1 6.3 12.3 15.7 .1 57,000 46.6 2.4 1.5 4.6 3.4 6.2 11.1 13.6 .1	968-69 ⁵	188,600	7.77	6.1	1.0	5.0	3.0	2.5	9.4	30.9	3.1	3.0	13.8
DOCTOR'S (except first-professional) 9,360 53.0 3.8 2.2 4.1 2.6 6.8 12.9 15.9 .1 26,100 51.0 3.0 2.2 4.4 3.1 6.3 12.3 15.7 .1 57,000 46.6 2.4 1.5 4.6 3.4 6.2 11.1 13.6 .1	978-796	368,400	75.8	0.9	9.	6.7	4.9	3.3	12.2	18.7	3.4	3,3	16.7
9,360 53.0 3.8 2.2 4.1 2.6 6.8 12.9 15.9 .1 26,100 51.0 3.0 2.2 4.4 3.1 6.3 12.3 15.7 .1 57,000 46.6 2.4 1.5 4.6 3.4 6.2 11.1 13.6 .1					ростов	'S (except fin	st-profassional						
26,100 51.0 3.0 2.2 4.4 3.1 6.3 12.3 15.7 .1 57,000 46.6 2.4 1.5 4.6 3.4 6.2 11.1 13.6 .1	958-59	098'6	53.0	3.8	2.2	4.1	2.6	8.9	12.9	15.9	٠.	ιί	4.3
57,000 46.6 2.4 1.5 4.6 3.4 6.2 11.1 13.6 .1	968-695	26,100	51.0	3.0	2.2	4.4	3.1	6.3	12.3	15.7	٦.	က	3.7
	978-796	22,000	46.6	2.4	1.5	4.6	3.4	6.2	11.1	13.6	٦.	4.	3.4

See footnotes at end of table 25.

Table 23.—Earned bachelor's and first-professional degrees, by field of study: United States, 1958-59 to 1978-79

A NATURAL SCIENCES AND RELATED PROFESSIONS

1891	sciences	and statistics	Engineering	Physical sciences	Biological 3 sciences	Agriculture and forestry	nealm professions	Science, general program
£	(2)	(3)	(4)	(2)	(9)	(2)	(8)	(6)
1958-59	111.654	8,980	37,988	15,409	15,039	8,128	24,201	1,909
959-60	114,706	11,399	37,679	16,007	15,576	7,484	24,455	2,106
1960-61	113,695	13,097	35,698	15,452	16,060	6,733	24,634	2,021
961-62	115,580	14,570	34,551	15,851	16,915	6,789	24,572	2,232
962-63	119.867	16,078	33,285	16,215	19,114	6,940	25,776	2,459
1963-64	128.701	18,624	35,013	17,456	22,723	7,115	25,259	2,511
1964-65	136.841	19,547	36,589	17,861	25,167	7,663	27,356	2,658
1965-66	127,531	20,066	35,615	17,129	26,918	8,063	28,171	2,569
2999	144,443	21,429	35,954	17,739	28,849	8,829	29,160	2,483
89-296	155,900	23,972	37,368	19,380	31,826	9,342	31,175	2,837
1968-695	171,480	28,570	39,330	21,070	36,930	9,940	32,460	3,170
				РВОЈЕСТЕО ⁶				
02-696	176.400	30,480	39,900	20,740	38,580	9,620	33,880	3,190
12-026	183,490	32,920	40,900	20,660	40,830	9,380	35,560	3,250
1971-72	188,830	35,220	41,540	20,360	42,850	9,050	36,510	3,290
1972-73	195,870	38,020	42,420	20,210	45,360	8,740	37,740	3,370
1973-74	202,190	40,740	42,940	19,860	47,680	8,360	39,180	3,420
1974-75	209,650	43,900	43,910	19,680	50,510	8,040	40,100	3,510
1975-76	216,470	46,980	44,720	19,380	53,180	7,670	40,970	3,570
22-926	223,730	50,210	45,680	19,100	56,010	7,310	41,800	3,640
82-2261	230,370	53,350	46,360	18,670	28,660	6,880	42,760	3,690
							4:1	

en bester und de ministrative de la companya de la

B. SOCIAL SCIENCES, HUMANITIES, AND RELATED PROFESSIONS

	sciences and humanities	Fine arts 7	Philosophy and religion	English and journalism	Foreign languages	Psychology	Social sciences	Education	Library science	Social work ¹¹	Other 12
(1)	(2)	(3)	(4)	(2)	(9)	(2)	(8)	(6)	(10)	(11)	(12)
1958-59	268,277	21,576	6,973	20,718	4,730	7,328	48,215	69,515	383	448	88,391
1959-60	274,477	22,281	7,278	22,400	5,482	8,061	50,193	71,145	429	487	86,721
1960-61	281,508	21,895	7,426	23,976	6,473	8,460	52,192	74,028	439	267	86,052
1961-62	298,695	23,370	7,571	26,508	7,975	9,578	57,304	78,153	423	654	87,159
1962-63	323,635	25,319	8,004	30,251	9,768	10,993	65,373	82,627	462	825	90,013
1963-64	365,473	28,184	8,816	35,174	12,217	13,258	77,039	90,813	510	983	98,479
1964-65	393,213	30,385	8,751	38,880	13,926	14,676	84,231	95,667	623	1,291	104,783
1965-66	412,509	32,605	8,898	42,146	15,313	16,940	93,175	94,294	642	1,664	106,832
1966-67	446,105	36,365	9,239	45,776	16,855	19,410	104,283	95,859	701	1,88,1	115,736
1967-68	510,810	42,566	698'6	52,340	19,264	23,938	120,774	107,778	814	2,518	130,959
1968-69	583,520	48,570	10,860	61,900	23,680	28,250	141,160	120,900	950	2,900	144,350
				D.	PROJECTED ⁶						
02-696	595,600	49,300	10,800	64,850	25,620	29,820	148,000	119,580	970	2,950	143,720
1970-71	617,510	50,880	10,870	060'69	28,130	31,900	157,280	120,450	1,010	3,050	144,850
1971-72	636,180	52,230	10,850	73,170	30,650	33,850	165,810	120,700	1,040	3,140	144,740
1972-73	663,130	54,330	10,900	78,530	33,810	36,270	176,490	122,740	1,090	3,290	145,690
1973-74	687,810	56,280	10,860	83,940	37,090	38,530	186,640	124,390	1,150	3,440	145,440
1974-75	718,350	58,670	10,900	90,160	40,810	41,320	198,770	126,550	1,210	3,610	146,360
1975-76	745,530	60,740	10,870	060'96	44,450	43,930	210,330	127,630	1,260	3,760	146,450
1976-77	773,270	62,800	10,840	102,160	48,220	46,660	222,460	128,260	1,320	3,910	146,640
87-7761	798,630	64,700	10,740	108,170	52,040	49,290	234,060	128,340	1,370	4,050	145,880
62-826	819.470	990	10 600	113 410	200	51 240	244 000	126 000	24.	7 4 40	444

See footnotes at end of table 25.

Table 24.—Earned master's degrees, by field of study: United States, 1958-59 to 1978-79

A. NATURAL SCIENCES AND RELATED PROFESSIONS

Year	Total natural sciences	Mathematics and statistics	Engineering	Physical sciences	Biological sclences	Agriculture and forestry	Health professions	Science, general program
ê	(3)	(3)	9	(2)	(9)	(2)	(8)	(6)
088.50	17 146	1 509	6.753	3200	2,007	1,563	1,762	352
1050.60	18 232	1,757	7.159	3,376	2,154	1,554	1,838	394
960-61	20.277	2.231	8,178	3,790	2,358	1,602	1,602	486
961-67	22.224	2,680	8,909	3,925	2,642	1,763	1,632	673
1962-63	24 084	3,313	9,633	4,125	2,921	1,546	2,011	239
963-64	26.920	3.597	10,827	4,561	3,296	1,651	2,279	709
1964-65	30,089	4.290	12,052	4,914	3,598	1,734	2,493	1,008
1965-66	33.586	5,00%	13,675	4,987	4,232	2,091	2,833	761
1966-67	36.308	5.727	13,880	5,405	4,996	2,201	3,398	701
1967-68	39.201	6.075	15.182	5,499	5,506	2,271	3,677	99
1968-695	42,070	6,800	16,4ລູດ	5,690	5,970	2,250	3,830	1,100
			•	PROJECTED ⁶				
1969-70	47,190	7.970	18.460	6,150	6,800	2,310	4,230	1,270
1970-71	54.860	9,640	21,530	6,860	8,000	2,500	4,800	1,520
1971-72	58.360	10,580	23,020	066'9	8,540	2,550	4,910	1,660
1972-73	62,650	11,710	24,810	7,170	9,210	2,840	5,080	1,820
1973-74	06.5.0	12,530	26,550	7,310	088'6	3,020	5,220	1,990
1974-75	71.070	13,530	28,550	7,470	10,630	3,230	5,430	2,180
1975-76	75,200	14,470	30,350	7,550	11,450	3,420	5,600	2,370
1976-77	80,140	15,590	32,510	7,670	12,350	3,640	5,800	2,590
1977-78	85.120	16,730	34,720	7,740	13,260	3,870	5,980	2,820
07 0701	00100	007.21	38 500	007.2	14 050	4.060	6.070	3,030

B. SOCIAL SCIENCES, HUMANITIES, AND RELATED PROFESSIONS

Year	Total social sciences and humanities	Fine arts ⁷	Philosophy and religion	English and journalism	Foreign 9 Ianguages	Psychology	Social sciences	Education	Library science 11	Social work	Other 12
(1)	(2)	(3)	(4)	(2)	(9)	(7)	(8)	(6)	(10)	(11)	(12)
1958-59	55,386	4,478	948	2,804	1,074	1,257	5,544	28,598	1,578	1,749	7,356
1959-60	59,460	4,809	919	3,192	1,156	1,406	5,965	30,424	1,814	1,987	7,788
1960-61	61,458	4,800	808	3,391	1,405	1,719	6,378	30,830	1,931	2,151	8,040
1961-62	66,202	5,182	868	3,765	1,626	1,832	7,241	32,654	2,140	2,272	8,592
1962-63	71,402	5,620	810	4,307	2,026	1,918	8,326	34,105	2,363	2,549	9,378
1963-64	78,610	6,020	946	4,807	2,391	2,039	9,395	37,171	2,717	2,851	10,253
1964-65	87,012	6,821	1,018	5,461	2,947	2,708	10,635	39,296	3,211	3,097	11,818
99-5961	106,969	6,359	1,442	6,783	3,727	3,117	12,900	45,094	3,916	3,872	17,754
29-996	121,399	9,741	1,530	7,980	4,378	3,772	14,954	49,744	4,489	4,182	20,629
89-2961	137,548	10,815	1,755	8,646	5,007	4,325	16,197	56,963	5,165	4,725	23,950
1968-695	146,530	11,440	1,800	9,450	5,630	4,730	17,730	58,200	5,900	5,600	26,050
				a	РВОЈЕСТЕD ⁶						
02-696	164,210	12,830	1,940	10,990	6,730	5,450	20,350	63,040	8,740	6,550	29,580
1970-71	189,430	14,830	2,150	13,130	8,260	6,480	24,140	70,130	7,900	7,650	34,760
1971-72	197,340	15,440	2,160	14,090	090'6	6,970	26,020	70,050	8,230	8,010	37,300
1972-73	207,950	16,270	2,200	15,310	10,050	7,570	28,320	70,660	8,700	8,490	40,380
1973-74	218,000	17,060	2,200	16,540	11,080	8,170	30,620	70,750	9,170	8,970	43,440
1974-75	230,730	18,080	2,230	18,070	12,340	8,910	33,350	71,400	9,800	9,580	46,990
1975-76	242,300	19,010	2,230	19,610	13,640	8,630	35,970	71,340	10,440	10,170	50,270
77-9761	255,970	20,120	2,240	21,380	15,130	10,460	39,040	71,410	11,160	10,850	54,180
87-7761	269,280	21,200	2,230	23,210	16,680	11,320	42,210	70,840	11,870	11,530	58,180
62-8261	279,220	22,010	2.180	24.800	18.100	12.080	44 990	68.910	12,430	12,070	61,640

See footnotes at end of table 25.

Table 25.—Earned doctor's degrees (except first-professional), by field of study: United States, 1958-59 to 1978-79

ş
NOISS
ESS.
졅
<u>-</u>
ATED
D RELAT
끭
SNO
_
CES
Ž
ဒ္ဓ
ہے
3
NATU
Ž
⋖

Year	Total natural sciences	Mathematics and statistics	Engineering	Physical sciences ²	Biological sciencas	Agriculture and forestry	Health professions	Science, general program
£	(2)	(3)	. (2)	(2)	(9)	(7)	(8)	(6)
0.00	000	cac	714	1812	1,045	388	153	9
1958-59	7,400 A 607	303	786	1838	1,205	456	107	2
1959-50	4,037	344	943	1,991	1,193	463	133	ო
190001	2000	96%	1 207	2,122	1,338	472	148	-
70.1061	2,004	490	1 378	2,380	1,455	462	157	4
1962-63	0,320	100	1.693	2,455	1,625	573	192	ო
1903-04	2316	88	2,124	2,829	1,928	222	173	17
1964-65	70,0	80	2.304	3,045	2,097	618	251	11
1905-00	40,120	820	2,614	3.462	2,255	670	250	۲.
/0-0061	10,120	2 2 2	2 932	3.593	2,784	629	243	=
1968-695	12,800	1,160	3,500	4,000	3,120	740	260	10
				PROJECTED ⁶				
							900	5
1969-70	14,350	1,350	4,110	4,370	3,440	ng.	067	2 6
1070.71	15.440	1,500	4,610	4,580	3,630	810	230	25
1071.77	16.750	1.680	5,210	4,840	3,860	830	300	22
1077.72	18 890	1950	8.090	5,320	4,290	830	330	20
1072.70	22 050	2,340	7,350	6,040	4,930	086	370	ଚ
#1-5/61	22,550	2570	8.130	6,280	5,160	066	380	9
67-4/61	25,420	2840	0806	6,610	5,460	1,010	380	40
0/-0/61	77.72	3110	10,000	6,860	5,720	1,010	380	40
07.770	20,100	3,420	11.040	7,160	6,020	1,020	400	20
05//61	20,440	3,660	11 870	7,280	6,190	066	400	20
19/0-/3	24,00	2000	2					

B. SOCIAL SCIENCES, HUMANITIES, AND RELATED PROFESSIONS

Year	sciences and humanities	Fine arts7	Philosophy and religion	English and journalism	Foreign languages	Psychology	Social sciences	Education	Library science 11	Social work 11	Other 12
(1)	(2)	(3)	(4)	(2)	(9)	(2)	(8)	(6)	(10)	(11)	(12)
958-59	4,960	329	206	382	241	635	1,208	1,487	9	30	400
1959-60	5,132	380	233	405	232	4	1,282	1,474	19	. 53	443
1960-61	5,505	410	263	408	264	703	1,369	1,594	14	36	444
1961-62	5,938	425	251	493	261	781	1,391	1,737	10	32	557
1962-63	6,496	467	267	527	277	844	1,557	1,943	17	40	557
1963-64	7,353	519	285	570	379	939	1,803	2,191	13	43	611
1964-65	8,151	545	304	206	436	1,004	2,027	2,372	12	34	711
99-5961	9,110	288	360	714	518	1,206	2,155	2,711	6	2	775
1966-67	10,487	642	408	871	578	1,393	2,526	3,143	16	2	846
1967-68	11,866	869	521	1,009	713	1,447	2,850	3,660	22	11	869
69-89	13,300	077	570	1,150	810	1,640	3,200	4,090	20	06	970
				d.	PROJECTED ⁶						
02-696	14,650	840	620	1,280	910	1,810	3,520	4,480	20	100	1,070
1970-71	15,460	880	640	1,360	980	1,930	3,710	4,710	20	110	1,130
71-72	16,450	320	099	1,470	1,060	2,070	3,960	4,990	20	120	1,200
1972-73	18,310	1,020	710	1,660	1,200	2,320	4,390	5,520	၉	130	1,330
373-74	21,050	1,160	800	1,940	1,410	2,700	5,030	6,320	8	160	1,520
1974-75	22,050	1,190	810	2,050	1,500	2,840	5,280	6,580	ဂ္ဂ	170	1,590
1975-76	23,380	1,250	840	2,200	1,610	3,030	5,590	6,940	40	180	1,690
77-9761	24,460	1,290	820	2,330	1,710	3,190	5,860	7,230	40	190	1,770
81-1161	25,800	1,340	870	2,490	1,340	3,400	6,170	7,590	40	210	1,860
62-826	26.560	1.360	870	2.600	1930	3.530	6340	7 760	%	220	1 910

Includes astronomy, chemistry, earth sciences, meteorology, physics, and other physi-Includes mathematics, statistics, and computer science.

cal sciences.

Includes anatomy, bacteriology, biochemistry, biology, botany, entomology, physiology, zoology, and other biological sciences.

6The projection of degrees by subject field is based on the assumption that the parcent distribution of degrees by field for each level and sex will continue the 1957-58 to 1967-68 trends. SEstimated.

⁴Includes dentistry, medicine and osteopathy, nursing, optometry, pharmacy, public health, veterinary medicine, and other heaith professions.

(Continued, p, 50.)

49

For methodological details, see appandix A, table A-2; for complete classification of degrees by field, see appendix A, "Classifications and Classification Changes."

includes architecture, music, speech and dramatic arts, and other fine and applied arts. ⁸Includes philosophy, scholastic philosophy, religious education and Bible, and other religious fields. 9Includes classical languages, French, German, Russian, other Slavic languages, and other

languages and language programs.

Includes anthropology, economics, geography, history, international relations, political science, public administration, sociology, and other social sciences.

Beginning in 1965-66, bachelor's and first-professional degrees in library science and social work exclude master's degrees whether considered as first-professional or not; they are included in master's degrees.

Prior to 1965-66, bachelor's and first-profassional degrees and master's degrees in library science and social work have been estimated to conform to this classification. For method of estimating, see appendix A, "Estimation Methods."

Doctorates have not been affected by this reclassification.

NOTE: Data are for 50 States and the District of Columbia for all years. Because of 12 Includes business and commerce; home economics; law; military, neval, or air force science; theology; and miscelleneous and unclassified fields.

rounding, detail may not add to totals.

SOURCES: U.S. Department of Health, Education, and Welfare, Office of Education publications: "Earned Degrees Conferred by Institutions of Higher Education," annually, 1357-58 through 1967-68.

CHAPTER IV

Teachers

Alice R. Pool and John F. Beamer, Jr.

Elementary and Secondary Schools

There were 2.4 million professional persons employed in the public and private elementary and secondary day schools in fall 1968. These included principals, supervisors, librarians, guidance and psychological personnel, and classroom teachers. Of the total number, over 90 percent were classroom teachers. The numbers of professional persons employed in the regular public school system were reported to the U.S. Office of Education by the State departments of education in each of the 50 States and the District of Columbia. The numbers in the regular nonpublic day schools were reported by the individual schools in Office of Education surveys.

Classroom teachers (table 26)

Classroom teachers are reported separately in the secondary and elementary schools. The former comprise the junior high and senior high schools; the latter, the elementary or grade schools. The number of classroom teachers in secondary schools (public and nonpublic) increased from 544,000 in 1958 to 947,000 in 1968 and is expected to be 1,116,000 in 1978. Those in public and nonpublic elementary schools increased from 931,000 in 1958 to 1,231,000 in 1968 but are expected to drop to 1,218,000 by 1978. The number of teachers in elementary schools is decreasing partly because of the shift of public seventh and eighth grade pupils from elementary to secondary junior high schools, and partly because of the decrease in the population aged 5-13 years. (See appendix B, table B-1.) The number of teachers in the secondary schools, on the other hand, continues to rise because of the continuing shift of pupils from the seventh and eighth grades into junior high (secondary) schools and because the smaller number of children born in the 1960's will not have reached high school age by 1978.

Of the total number of classroom teachers in the public schools, the Elementary and Secondary Education Act (ESEA) of 1965 can be credited with adding more than 100,000 to the teaching rolls. It is not likely that these would have been employed without this substantial Federal aid.

Pupil-teacher ratios (table 27)

The projection of teachers in both public and nonpublic schools depends upon the projection of enrollments (table 4) and upon the projection of pupil-teacher ratios (table 27). For the public schools, the 1965 to 1968 portion and the projected portion of section A in the table show the actual ratios already attained since the 1965 ESEA took effect and those expected with the continuation of this legislation. The lower section B of the table shows the ratios obtained on the basis of trend alone. The difference in these ratios is the result of about 120,000 additional teachers in 1968 and 140,000 additional expected by 1978.

The nonpublic schools are not affected by the ESEA. For these schools, the 1968 Office of Education survey (available too late for incorporation in these projections) shows the drop in pupil-teacher ratios which they had achieved by 1965 to have been partly countered by their recent financial difficulties.



Demand for additional classroom teachers (tables 28, 29)

The total demand for public elementary and secondary school teachers (not employed in the public schools the previous year) includes those needed to allow for increased enrollment and those needed for replacement of teachers leaving the profession (turnover). During the period fall 1964-fall 1968, the cumulative demand for additional public school teachers (including returnees to the profession) was 1,051,000. On the basis of trend alone, it would total 843,000 in 1969 through 1973 and 815,000 in 1974 through 1978. Allowance for the expected impact of ESEA, however, will increase these totals to 911,000 and 871,000, respectively. This means that 1.8 million new teachers or returnees to the profession are expected to be employed by the public schools during the next 10 years, 1969 through 1978. The largest number is required for turnover, which will account for over 91 percent of this demand.

The projected demand for additional public school teachers is shown in table 28. The number of teachers necessary to take care of enrollment increases was computed for each year as the difference between the total employed for the current year and the total employed for the previous year. The number for turnover was based on the assumption that 8 percent of the total classroom teachers will leave the profession temporarily or permanently each year. Projection A includes the increases in classroom teachers because of ESEA.

The future demand for additional nonpublic school teachers is expected to be smaller than in the past 5 years because enrollment increases are expected to be smaller. About 55,000 new nonpublic school teachers or returnees to the profession were employed during fall 1964 through fall 1968. This number is expected to drop to 42,000 in 1969 through 1973 and to increase to 51,000 in the 1974 through 1978 period. Approximately 93,000 additional nonpublic school teachers will be employed during the next 10 years, 1969 through 1978. Turnover will account for all but 3,000 of this demand. These estimates and projections do not take into account the 1968 preliminary data on nonpublic school teachers which were received too late for incorporation in these tables.

The projected demand for additional nonpublic elementary and secondary school teachers is shown in table 29. The number for taking care of enrollment increases was computed in the same manner as for public schools, and the number for turnover is based on the assumption that 4 percent (one-half the public school rate) of the nonpublic school teachers will leave the profession permanently or temporarily each year. This lower rate (4 percent) was assumed because about one-half of all nonpublic school teachers belong to religious orders, where the turnover is presumably small.

Instructional staff (table 30)

Instructional staff in public elementary and secondary schools includes principals, supervisors, librarians, and guidance and psychological personnel, as well as classroom teachers. Instructional staff and classroom teachers are not reported separately for nonpublic schools. Since it is believed that the primary responsibility of most professional personnel employed by the nonpublic schools is classroom teaching, the number of their instructional staff shown here is the same as the number of their teachers.

Projected instructional staff is shown in table 30. Instructional staff in public elementary and secondary schools increased from 1.4 million in 1958 to 2.2 million in 1968 and, on the basis of a continuation of ESEA (section A of the table), is expected to be 2.4 million in 1978. This is over 150,000 more staff members employed in each year, 1969 to 1978, than the numbers projected in section B of the table.



¹U.S. Department of Health, Education, and Welfare, Office of Education, *Teacher Turnover in Public Elementary and Secondary Schools, 1959-60*, by Frank Lindenfeld, U.S. Government Printing Office, Washington, D.C., 1963.

The public school instructional staff projection in section B was based on the assumption that instructional staff as a percentage of classroom teachers would continue the 1958-64 trend if it were not for the effect of ESEA. The ratio of total public school instructional staff to classroom teachers increased from 107.8 in 1958 to 111.1 in 1968 and, based on trend alone, would be expected to be 114.3 by 1978. These ratios were applied to the public classroom teacher figures shown in table 26 to obtain the projections in section B. Nonpublic school instructional staff was assumed to be 100 percent of the classroom teachers shown in table 26.

Institutions of Higher Education

The faculty data for institutions of higher education shown in tables 31 to 39 are from biennial reports on numbers of positions, submitted by individual institutions for 1957-58 through 1963-64, with estimates for 1966-67 prorated to the total number of faculty reported in the 1966-67 Higher Education General Information Survey.

Prior to 1966-67, the reports of professional staff gave the number of different functions performed by members of the staff. These functions included full-time and part-time instruction in resident degree-credit courses, instruction in resident nondegree-credit courses, and instruction in extension, mail, radio, or television courses. They also included professional positions in administration and services and in organized research. Because some of these functions overlapped, with one person carrying out more than one function, the number of positions by function was greater than the number of persons employed. The total number of persons without regard to the function performed was also reported. In 1963-64, the last report prior to 1966-67, the ratio of total positions to total persons was 1.1.

Beginning in 1966-67, the reporting was in terms of the principal position held by each person. Thus the number of positions equaled the number of persons employed. However, the breakdown of positions was quite different from the earlier reports.

Because continuity is a requisite for projecting data, the total number of persons reported in 1966-67 was converted to positions by using the 1.1 ratio of positions to persons. The estimates for 1966-67 based on the earlier reporting were prorated to this total. The new 1966-67 totals by position for the 1963-64 categories were then used for projecting the faculty data.

Organized research was treated differently from other categories of professional staff in the tables. It was the only position classification in the 1966-67 report which appeared to remain the same as in 1963-64 (except for the position to person change). It therefore was subtracted from the overall number of professional persons reported in 1966-67 and was used as reported after multiplying by 1.1 to convert to positions. However, the number obtained was much smaller than expected, perhaps because the conversion factor was too small in the case of organized research (only a factor based on total professional persons and positions was available). Or there actually may have been a drop from 1963-64 to 1966-67 in the number of persons engaged in organized research as a proportion of instructional staff for resident degree-credit courses.

Instructional staff for resident degree-credit courses (table 31)

The total of full-time and part-time instructional staff for resident degree-credit courses in all institutions of higher education (table 31) increased from 272,000 in 1958-59 to an estimated 525,000 in 1968-69 and is expected to be 721,000 in 1978-79. These figures include all full-time and part-time instructors and above, plus junior instructional staff employed for instruction in resident degree-credit courses. The junior instructional staff includes assistant instructors, teaching fellows, teaching assistants, and laboratory assistants.

The total full-time and part-time instructional staff for resident degree-credit courses was projected separately for publicly controlled 4-year and 2-year institutions and privately controlled 4-year and 2-year institutions and the four results summed to obtain the total for all



institutions. The projections are based on the assumption that student-staff ratios in each institutional control and type category will continue to increase as they have in the past. To obtain the projections, projected enrollments in each of the institutional control and type categories (tables 7 and 8) were divided by the projected student-staff ratios in corresponding categories. The resulting projections by institutional control and type categories are shown in tables 33 to 37 along with projections of all professional staff.

Full-time-equivalent instructional staff for resident degree-credit courses (table 32)

Full-time-equivalent instructional staff for resident degree-credit courses in all institutions increased from 194,000 in 1958-59 to an estimated 373,000 in 1968-69 and is expected to rise to 512,000 in 1978-79. These figures include full-time staff and full-time equivalent of part-time instructor or above, plus the estimated full-time equivalent of junior instructional staff. In 1963-64, in all institutions, about 80 percent of the instructional staff members with the rank of instructor or above were employed full time.

Total professional staff (tables 33 to 37)

Total full-time and part-time professional staff in institutions of higher education classified by function includes, in addition to staff for instruction in resident degree-credit courses, full-time and part-time instructional staff employed for extension courses, resident nondegree-credit courses, and instruction by mail, radio, or television. It also includes full-time and part-time professional staff employed for administration and services and for organized research. Full-time and part-time professional staff in institutions of higher education rose from 403,000 in 1958-59 to an estimated 792,000 in 1968-69 and is expected to be nearly 1.1 million in 1978-79.

Projected full-time and part-time professional staff for all institutions is shown in table 33. The projection of this staff is based on the assumption that each of the separate functions, as a percentage of total full-time and part-time instructional staff for resident degree-credit courses, will maintain to 1978-79 the same relationship that existed in 1963-64.

The percentages used for other instructional staff, administration and services, and organized research differed in each of the four types of institutions and are given in the footnotes to tables 34 to 37. These tables give projections of these "other" instructional and professional staff for the four types of institutions: publicly controlled 4-year and 2-year and privately controlled 4-year and 2-year institutions.

Full-time-equivalent professional staff (table 38)

The estimated and projected full-time equivalent of total full-time and part-time professional staff in all institutions is shown in table 38. The method of estimating and projecting full-time-equivalent instructional staff for resident degree-credit courses is given in the footnotes to table 32. The 1963-64 ratio of full-time-equivalent instructional staff for resident degree-credit courses to total full-time and part-time instructional staff for these courses was 0.71. The totals shown in table 33 for full-time and part-time staff employed for instruction in courses other than resident degree-credit courses, for administration and services, and for organized research, were multiplied by the above ratio to obtain the full-time equivalents for this staff given in table 38.

Demand for full-time-equivalent professional staff (table 39)

During the past 5 years, 1964-65 through 1968-69, the total demand for additional full-time-equivalent professional staff was 315,000. The totals are expected to be 287,000 in



1969-70 through 1973-74 and 324,000 in 1974-75 through 1978-79. These figures include the number of professional staff needed for instruction, administration and services, and organized research. Over 80 percent of the required staff is for instruction.

The demand for this staff is projected as the total of staff required for increased enrollment and staff needed for replacement of those who have left the profession either temporarily or permanently. Full-time-equivalent staff required for increased enrollment is computed as the difference between the total number employed in successive years. Replacement requirements are estimated at 6 percent of the total number of full-time-equivalent staff employed in the previous year.

The assumption of a 6-percent replacement rate is based on unpublished data from a 1963 Office of Education study which showed that about 5 percent of the full-time instructors and above in 4-year institutions intended to leave employment in institutions of higher education during the following year. If we estimate an additional 1 percent for mortality, the annual replacement rate is then 6 percent.

Table 26.—Classroom teachers in regular elementary and secondary day schools, by institutional control and organizational level: United States, fall 1958 to 1978¹

					housands)				
	Tota	l public and t	nonpublic		Public		No	npublic (estir	nated) ²
Year (fall)	K-12	Elementary	Secondary	K-12	Elementary	Secondary	K-12	Elementary	Secondary
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
1958	1,475	931	544	1,306	815	491	169	116	53
1959	1,531	952	580	1,355	832	524	178	120	ຸ 56
1960	1,600	991	609	1,408	858	550	192	ູ 133	³ 59
1961	1,668	1,015	653	1,461	869	592	207	³ 146	×61
1962	1,727	1,036	690	1,508	886	621	219	150	69
1963	1,806	1,062	743	1,578	908	669	228	154	74
1964	1,882	1,096	786	1,648	946	708	235	156	78
	A. Ir	ncludes Effe	ect of Elem	entary	and Second	dary Educa	tion A	ct of 1965	
•				A	CTUAL		_		
1965	1,951	1,122	828	1,710	965	746	240	³ 158	³ 82
1966	2,028	1,164	865	1,789	1,006	783	239	158	81
1967	2,097	1,199	898	1,855	1,040	815	242	159	83
1968	2,178	1,231	947	1,943	1,079	864	235	151	84
				PRO	JECTED ⁴				
1969	2,223	1,238	985	1,988	1,087	900	235	150	85
1970	2,245	1,232	1,013	2,012	1,084	928	233	148	85
1971	2,260	1,219	1,041	2,028	1,073	955	232	146	86
1972	2,269	1,204	1,065	2,038	1,060	978 [,]	230		86
1973	2,285	1,192	1,093	2,054	1,047	1,006	232		87
1974	2,296	1,186	1,110	2,062	1,040	1,023	233		88
1975	2,304	1,184	1,120	2,069		1,033	235		88
1976	2,314	1,187	1,127	2,078		1,039	236		88
1977	2,324	1,200	1,123	2,086	•	1,035	237		89
1978	2,334	1,218	1,116	2,096	1,069	1,028	238	149	89

See footnotes at end of table.



Table 26.—Classroom teachers in regular elementary and secondary day schools, by institutional control and organizational level: United States, fall 1958 to 1978¹—Continued

[In thousands]

	B. Ex	cludes Eff	ect of Ele	mentary a	nd Second	lary Educa	ation Act	of 1965	-
				ESTIN	ATED ⁵				
	1,921	1,117	804	1,680	959	721	240	158	82
	1,959	1,136	822	1,720	979	741	239	158	81
1967	2,005	1,150	855	1,764	992	772	242	159	83
1968	2,052	1,148	904	1,817	997	820	235	151	84
				PROJE	CTED ⁶		.,,		-
1969	2,083	1,148	935	1,848	997	850	235	150	85
	2,105	1,142	963	1,872	994	878	233	148	85
1971	2,120	1,129	991	1,888	983	905	232	146	86
1972	2,129	1,114	1,015	1,898	970	928	230	144	86
	2,145	1,102	1,043	1,914	957	956	232	145	87
1974	2,156	1,096	1,060	1,922	950	973	233	146	88
1975	2,164	1,094	1,070	1,929	947	983	235	147	88
976	2,174	1,097	1,077	1,938	949	989	236	148	88
1977	2,184	1,110	1,073	1,946	962	985	237	149	89
1978	2,194	1,128	1,066	1,956	979	978	238	149	89

Includes full-time and part-time classroom teachers (in 1968, 99 percent of teachers in the public schools were full time). Does not include teachers in independent nursery and kindergarten schools, residential schools for exceptional children, subcollegiate departments of institutions of higher education, Federal schools for Indians, schools on Federal installations, and other schools not in the regular school system.

Instructional staff and classroom teachers are not reported separately. All data unless otherwise indicated are estimated. Estimates revised spring 1968 on basis of 1965 Office of Education survey.

yey.

3 Actual data from Office of Education surveys.

Data from the 1968 survey were received too late for inclusion in this table.

The projection of classroom teachers in public schools, including the effect of the Elementary and Secondary Education Act of 1965 (ESEA), assumes that 140,000 more teachers will be employed each year than the number projected for corresponding years under the 1958-64 trend projections. This increase is based on 1968 experience, as well as on the amount of funds made available by provisions of ESEA.

The projection of classroom teachers in non-public schools is based on the assumption that the projected pupil-teacher rados at each organizational level will follow the 1958-65 trends to 1978, with the restrictions that the plementary ratios will not go below 26 and the secondary ratios will not go below 15 pupils per teacher.

⁵Estimated, using the 1958-64 trend.

The projection of classroom teachers in public schools, excluding the effect of ESEA, is based on the assumption that the projected pupil-teacher ratios at each organizational level will follow the 1958-64 trend to 1978.

The projection of classroom teachers in non-public schools is not affected by ESEA,

For further methodological details, see appendix A, table A-3.

NOTE: Data are for 50 States and the District of Columbia for all years. Because of rounding, detail may not add to totals,

SOURCES: Classroom teacher data and estimates are based on U.S. Department of Health, Education, and Welfare, Office of Education publications: (1) "Statistics of Fublic Schools," fall 1964 through 1968; (2) "Enrollment, Teachers, and Schoolhousing," fall 1958 through 1963; (3) "Statistics of State School Systems," 1957-58 and 1959-60; (4) "Statistics of Nonpublic Elementary and Secondary Schools, 1965-66"; (5) "Statistics of Nonpublic Elementary Schools, 1961-62"; and (6) "Statistics of Nonpublic Secondary Schools, 1960-61."



Table 27.—Pupil-teacher ratios in regular elementary and secondary day schools, by institutional control and organizational level: United States, fall 1958 to 1978¹

Year (fall)	Public		Nonpublic (estimated) ²	
	Elementary	Secondary	Elementary	Secondary
(1)	(2)	(3)	(4)	(6)
958	28,7	21.7	39.7	19.2
959	28.7	21.5	38.8	18.5
960	28.4	21.7	36.0	³ 18.3
	28,3	21,7	³ 33.3	18.0
961	28.5	21,7	32.8	17.7
962	28.4	21,5	32,3	17,4
963	28.4 27.9	21,5	31,8	17.1
			ducation Act of 19	65
A. Meleucs		ACTUAL		
			304.0	³ 16.7
965	27.6	20.8	³ 31.3	
966	26.9	20.3	31.4	17.3
1967	26.3	20.3	29.0	16.8
968	25.4	20.3	28.8	16.7
	P(ROJECTED ⁴		
969	25,2	20.2	28.6	16.5
	25.1	20.2	28.4	16.4
970		20.3	28.1	16.3
1971	25.0		27.8	16.2
i972	24.9	20.3		16.1
1973	24.8	20.2	27.6	
1974	24.7	20.3	27.4	16.0
1975	24,6	20.3	27.2	16.0
1976	24,5	20.3	27.1	15.9
1977	24.4	20.3	26.9	15.8
1978	24.5	20.2	26.8	15.8
B. Excludes	Effect of Element	ary and Secondary	Education Act of 1	965
	E	STIMATED ⁵		
1965	27.8	21.5	31.3	16
1966	27.7	21.5	31.4	17.3
1967	27.6	21.4	29.0	16.8
1968	27.5	21.4	28.8	16.7
•		PROJECTED ⁶		
1969	27,5	21,4	28.6	16.5
1970	27.4	21.4	28.4	16.4
	27. 3 27.3	21,4	28,1	16.3
1971	27.3 27.2	21,4	27.8	16.2
1070	21.2		27.6	16.1
1972	07.1	21.3		
1973	27.1	21.3		16.0
1973 1974	27.0	21.3	27.4	
1973 1974 1975	27.0 26.9	21.3 21.3	27.4 27.2	16.0
1973 1974	27.0 26.9 26.8	21.3 21.3 21.3	27.4 27.2 27.1	15.9
1973 1974 1975	27.0 26.9	21.3 21.3	27.4 27.2	16.0

See footnotes on page 58.

1 Includes full-time and part-time classroom teachers (in 1968, 92 percent of teachers in the public schools were full time). Does not include teachers in independent nurseries and kindergarten schools, residential schools for exceptional children, subcollegiate departments of institutions of higher education, Federal schools for indians, schools on Federal installations, and other schools not in the regular school system.

Instructional staff and classroom teachers are not reported separately. All data inless otherwise indicated are estimated. Estimates revised spring 1968 on basis of 1965 Office of Education survey.

Actual data from Office of Education surveys.

Data from the 1968 survey were received too late for inclusion in this table.

The projection of pupil-teacher ratios in the regular public schools, including the effect of the Elementary and Secondary Education Act of 1965 (ESEA), at each organizational level, is based on the ratio of enrollment to the number of teachers expected to be hired each year 1369 to 1978 with the continuation of ESEA.

1978 with the continuation of ESEA.

The projection of pupil-teacher ratios in the nonpublic schools is based on the assumption that the projected pupil-teacher ratios at each organizational level will follow the 1958-65 trend to 1978, with the restrictions that the elementary ratios will not go below 26 and the secondary ratios will not go below 15 pupils per teacher.

 5 Estimated, using the 1958-64 trend.

The projection of pupil-teacher ratios in the regular public schools, excluding the effect of ESEA, is based on the assumption that the projected pupil-teacher ratios at each organizational level will follow the 1953-64 trend to 1978.

The projection of pupil-teacher ratios in the nonpubilic schools is not affected by the ESEA. For further methodological details, see appendix A, table A-3.

NOTE: Data are for 50 States and the District of Columbia for all years. Because of rounding, detail may not add to totals.

SOURCES: Classroom teacher data and estimates are based on U.S. Department of fiealth, Education, and Welfare, Office of Education publications: (1) "Statistics of Public Schools," fall 1964 through 1968; (2) "Enrollment, Teachers, and Schoolhousing," fall 1958 through 1963; (3) "Statistics of State School Systems," 1957-58 and 1959-60; (4) "Statistics of Nonpublic Elementary and Secondary Schools, 1965-66"; (5) "Nonpublic School Enrollment in grades 9-12, Fall 1964, and Graduates, 1963-64"; (6) "Statistics of Nonpublic Elementary Schools, 1961-62"; and (7) "Statistics of Nonpublic Secondary Schools, 1960-61."

Table 28.—Estimated demand for classroom teachers in regular public elementary and secondary day schools: United States, fall 1963 to 1978¹

		Demand	ed teachers	
Year (fall)	Total teacher demand	Total	For enrollment increase	For teacher
(1)	(2)	(3)	(4)	(5)
1963	1,577,777	400.000	70.407	 126,222
1964	1,648,184 	196,629	70,407	
A. Hictore		ACTUAL		
1965	1,710,319	193.990	62,135	131,855
1966	1,789,238	215,745	78,919	136,826
1967	1,855,189	209,090	65,951	143,139
1968	1,942,785	236,011	87,596	148,415
1964-68	•••••	1,051,465	365,008	686,457
	PF	ROJECTED ²		
1969	1,988,000	200,000	45,000	155,000
1970	2,012,000	183,000	24,000	159,000
1971	2.028.000	177,000	16,000	161,000
1972	2,038,000	173,000	10,000	162,000
1973	2,054,000	178,000	15,000	163,000
1969-73	•••••	911,000	111,000	801,000
.074	2.002.000	472.000	0.000	164,000
1974	2,062,000	173,000	9,000	165,000
1975	2,069,000	172,000	7,000	166,000
1976	2,078,000	175,000	9,000	166,000
1977	2,086,000	174,000	8,000 10,000	167,000
1978	2,096,000	177,000 871,000	43,000	828,000
	s Effect of Elementar			
B. Exclude		<u> </u>	Education Act of 78	
	ES	IMATED ³		
1965	1,680,000	164,000	32,000	132,000
1966	1,720,000	174,000	39,000	134,000
1967	1,764,000	182,000	44,000	138,000
1968	1,817,000	194,000	53,000	141,000
	PR	OJECTED ⁴		
1969	1,848,000	176,000	31,000	145,000
1970	1,872,000	172,000	24,000	148,000
1971	1,888,000	165,000	16,000	150,000
1972	1,898,000	161,000	10,000	151,000
1973	1,914,000	167,000	15,000	152,000
1969-73	•••••	843,000	97,000	746,009
1974	1,922,000	162,000	9,000	153,000
1975	1,929,000	161,000	7,000	154,000
1976	1,938,000	163,000	9,000	154,000
1977	1,946,000	163,000	8,000	155,000
1978	1,956,000	166,000	10,000	156,000
1974-78	• • • • •	815,000	43,000	772,000
See footnotes on page 60		_		



¹ Includes full-time and part-time classroom teachers (In 1968, 99 percent of teachers in the public schools were full time). Does not include teachers in independent nurseries and kindergartens, residential schools for exceptional children, subcollegiate departments of institutions of higher education, Federal schools for Indians, schools on Federal installations, and other schools not in the regular school system.

The projection of classroom teachers in public schools, including the effect of the Elementary and Secondary Education Act of 1965 (ESEA), assumes that 140,000 more teachers will be employed each year than the number projected for corresponding years under the 1958-64 trend projections. This increase is based on 1968 experience, as well as on the amount of funds made available by provisions of ESEA.

³Estimated, using the 1958-64 trend.

The projection, excluding the effect of ESEA, of demand for teachers in addition to those retained from the previous year was based on the following assumptions: (1) For enrollment increase, the number of additional teachers needed will be the difference between the projected number that must be employed in a given year to maintain the 1958-64 trend in the pupil-teacher ratio and similarly projected number in the previous year; (2) for teacher turnover, the number of additional

teachers needed to replace those leaving the profession either temporarily or permanently will be 8 percent of the total employed in the previous year. The 8-percent separation rate is based on the Office of Education study "Teacher Turnover in Public Elementary and Secondary Schools, 1959-60."

The projected demand makes no allowance for replacement of teachers who hold substandard certificates (about 5 percent of employed teachers)

For further methodological details, see appendix A, table A-3.

NOTE: Data are for 50 States and the District of Columbia for all years. Because of rounding, detail may not add to totals.

SOURCES: U.S. Department of Health, Education, and Welfare, Office of Education publications: (1) "Statistics of Public Schools," fall 1964 through 1968; (2) "Enrollment, Teachers, and Schoolhousing," 1958 through 1963.



Table 29.—Estimated demand for classroom teachers in regular nonpublic elementary and secondary day schools: United States, fall 1963 to 1978

		Deman	ted teachers	
Year (fall)	Total teacher demand	Total	For enrollment increase	For teacher turnover
(1)	(2)	(3)	(4)	(5)
1963	228,000			
1964	235,000	16,000	7,000	9,000
1965	240,000	14,000	5,000	9,000
1966	239,000	9,000	-1,000	10,000
1967	242,000	13,000	3,000	10,000
1968	235,000	3,000	-7,000	10,000
1964-68		55,000	7,000	48,000
	PROJ	ECTED ¹		
1969	235,000	9,000	•••	9,000
1970	233,000	7,000	-2,000	9,000
1971	232,000	8,000	-1,000	9,000
972	230,000	7,000	-2,000	9,000
1973	232,000	11,000	2,000	9,000
1969-73		42,000	-3,000	45,000
1974	233,000	10,000	1,000	9,000
1975	235,000	11,000	2,000	9,000
1976	236,000	10,000	1,000	9,000
1977	237,000	10,000	1,000	9,000
978	238,000	10,060	1,000	9,000
1974-78		51,000	6,000	45,000

The projection of demand for teachers not employed in the nonpublic schools in the previous year was based on the following assumptions: (1) For enrollment increase, the number of additional teachers needed will be the difference between the projected number that must be employed in a given year to maintain the 1958-65 trend in pupil-teacher ratios and the similarly projected number in the previous year; and (2) for teacher turnover, the number of additional teachers needed to replace those leaving the nonpublic schools either temporarily or permanently is assumed to be 4 percent of the total employed in the previous year.

Oate include instructional staff, believed to be few in number.

For further methodological details, see appendix A, table A-3.

NOTE: Data are for 50 States and the District of Columbia for all years. Because of rounding, detail may not add to totals.

SOURCES: U.S. Department of Health, Education, and Welfare, Office of Education publications: (1) "Statistics of Nonpublic Secondary Schools, 1960-61"; (2) "Statistics of Nonpublic Elementary Schools, 1961-62"; and (3) "Statistics of Nonpublic Elementary and Secondary Schools, 1965-66."



Table 30.—Estimated instructional staff in regular elementary and secondary day schools, by institutional control: United States, fall 1958 to 1978

[In thousands]

Year (fall)	Total	Public schools	NonEublic schools ²
(1)	(2)	(3)	(4)
1958	1,577	1,408	169
1959	1,639	1,463	176
1960	1,718	1,526	192
1961	1,798	1,591	207
1962	1,866	1,647	219
1963	1,956	1,728	228
1964	2,046	1,811	235

A. Includes Effect of Elementary and Secondary Education Act of 1965

	ACTUAL		
965	2,126	1,886	240
966	2,216	1,977	239
967	2,297	2,055	242
968	2,394 2,159 PROJECTED ³	2,159	235
969	2,452	2,217	235
970	2,482	2,249	233
71	2,517	2,285	232
2	2,509	2,279	230
3	2,547	2,315	232
4	2,565	2,332	233
5	2,581	2,346	235
6	2,599	2,363	236
7	2,615	2,378	237
8	2,634	2,396	238

B. Excludes Effect of Elementary and Secondary Education Act of 1965

	ESTIMATED ⁴		
1965	2,093	1,853	240
1966	2,140	1,901	239
1967	2,197	1,955	242
1968	2,254 2,019 PROJECTED ⁵	2,019	235
1969	2,296	2,061	235
1970	2,326	2,093	233
1971	2,360	2,128	232
1972	2,352	2,122	230
1973	2,389	2,157	232
1974	2,407	2,174	233
1975	2,422	2,187	235
1976	2,440	2,204	236
1977	2,455	2,218	237
1978	2,474	2,236	238

See footnotes, page 63.



Instructional staff includes principals, supervisors, librarians, and guidance and psychological personnel, as well as full-time and part-time classroom teachers. (In 1968, 99 percent of classroom teachers were full time.) Does not include instructional staff in independent nursery and kindergarten schools, residential schools for exceptional children, subcollegiate departments of higher education, Federal schools for indians, schools on Federal installations, and other schools not in the regular school system.

Instructional staff and classroom technis are not reported separately. Estimates revised spring 1968 on basis of 1965 Office of Education survey.

on basis of 1995 Office of Education states,

The projection of instructional staff in public schools, including the effect of ESEA, assumes an increase over the number expected on the basis of trend elone of epproximately 150,000 each year. The projection of this increase is besed on 1968 experience and on the emount of funds mede available by provisions of ESEA.

⁴Estimated, using the 1958-64 trend.

5 The projection of instructional staff in regular public schools, excluding the effect of ESEA, is based on the assumption that the ratio of instructional staff to classroom teachers will follow the 1958-64 trend. The projection of instructional staff in nonpublic schools is the same as for classroom teachers (table 25).

For further methodological details, see appendix A, table A-3.

NOTE: Data are for 50 States and the District of Columbia for all years, Because of rounding, detail may not add to totals.

SOURCES: Instructional staff data and estimates are based on U.S. Department of Health, Education, and Welfare, Office of Education publications: (1) "Statistics of State School Systems," blennial circulars 1957-58 through 1965-66; (2) "Statistics of Nonpublic Elementary Schools, 1961-62"; (3) "Statistics of Nonpublic Secondary Schools, 1960-61"; and (4) "Statistics of Nonpublic Elementary and Secondary Schools, 1965-66."



Table 31.—Full-time and part-time instructional staff positions for resident degree-credit courses in all institutions of higher education, by professional rank: United States, first term 1958-59 to 1978-791

Year (fell)	Total		Instructor or abov	e	Junior Instruction
Year (Yell)	lotai	Total	Full time	Part time	steff
(1)	(2)	(3)	(4)	(5)	(6)
1958-59 ²	272,000	237,000	160,000	77,000	36,000
1959-60	281,506	242,914	16?,292	80,622	38,592
1960-61 ²	294,000	253, 00 0	169,000	84,000	42,000
961-62	310,772	264,749	177,052	87,697	46,023
962-63 ²	334,000	285,000	190,000	95,000	49,000
963-64	ୁ 55,542	302,896	202,396	100,500	52,640
964-65 ²	391,000	332,000	222,000	110,000	59,000
965-66 ²	435,000	369,000	247,000	123,000	65,000
966-67 ³	465,000	396, 00 0	264,000	131,000	70,000
967-68°	495,000	421,000	281,000	140,000	74,000
1968-69 ³	525,000	446,000	298,000	148,000	79,000
		PROJECT	ED ⁴		
1969-70	533,000	453,000	303,000	150,000	80,000
970-71	551,000	468,000	313,000	155,000	83,000
971-72	572,000	486,000	325,000	161,000	86,000
972-73	596,000	507,000	339,000	168,000	89,000
973-74	622,000	529,000	354,000	176,000	93,000
974-75	644,000	547,000	366,000	182,000	97,000
975-76	667,000	567,000	379,000	188,000	100,000
976-77	686,000	583,000	389,000	193,000	103,000
977-78	701,000	596,000	398,000	198,000	105,000
1978-7 9	721,000	613,000	409,000	203,000	108,000

¹ Faculty tables are in terms of professional positions, not persons. The ratio of positions to persons is approximately 1.1. Interpolated.

The projection of total instructional staff for resident degree-credit courses employed as full-time instructor or above, part-time instructor or above, and as junior instructor, is based on the percentage each was of total full-time end parttime instructional steff for resident degree-credit courses in 1963-64. These percentages were 57, 28, and 15 percent, respectively, and are assumed to remain at the 1963-64 level to 1978-79.

For methodological details, see appendix A, table A-3.

NOTE: Because of rounding, detail may not add to totals.

SOURCES: U.S. Depertment of Health, Education, and Weltare, Office of Education publications: "Numbers and Characteristics of Employees in Institutions of Higher Education, Fell 1966," and "Faculty and Other Professional Staff in Institutions of Higher Education," biennially, first term 1957-58 to 1963-64.

Estimated. Estimates were based on: (1) enrollments in 1966, 1967, and 1968; (2) the total number of professional persons in 1966-67 (converted to a position basis); and (3) the distriverted to a position basis); and (3) the distri-bution of professional positions reported in 1963-64. (All reports prior to 1966-67 were in terms of positions, not persons. They provided different detail than did the 1966-67 report.)

⁴The projection of total full-time and part-time instructional staff for resident degree-credit courses was computed separately by institutional control and type categories as outlined in tables 34 to 37, footnote 4, end summed for ell institutions. The projections were based on the assumption that the ratio of total degree-credit enrollment to instructional staff for resident degree-credit courses in each institution by control and type will follow the 1957-58 to 1966-67 trend to

Table 32.—Full-time-equivalent instructional staff for resident degree-credit courses in all institutions of higher education, by professional rank: United States, first term 1958-59 to 1978-79

	Total	. 1	nstructor or abo	ove	Full-time
Year (fall)	full-time- equivalent instructional staff	Total full-time equivalent	Full time	Full-time equivalent of part time	equivalent of junior instructional staff
(1)	(2)	(3)	(4)	(5)	(6)
1958-59 ¹	194,000	182,000	160,000	22,000	12,000
1959-60	200,850	187,850	162,292	25,558	13,000
1960-61 ¹	210,000	196,000	169,000	27,000	14,000
1961-62	221,553	206,553	177,052	29,501	15,000
1962-63 ¹ ,	237,000	221,000	190,000	31,000	16,000
1963-64	252,013	235,013	202,396	32,617	17,000
1964-65 ¹	278,000	258,000	222,000	36,000	19,000
1965-66 ¹	309.000	287,000	247,000	40,000	22,000
1966-672	331,000	308,000	264,000	43,000	23,000
1967-682	352,000	328,000	281,000	46,000	25,000
1968-69 ²	373,000	347,000	298,000	49,000	26,000
		PROJECTE	D ³		
1969-70	378,000	352,000	303,000	50,000	26,000
1970-71	391,000	364,000	313,000	51,000	27,000
1971-72	406,000	378,000	325,000	53,000	28,000
1972-73	424,000	394,000	339,000	55,000	30,000
1973-74	442,000	411,000	354,000	58,000	31,000
1974-75	458,000	426,000	366,000	60,000	32,000
1975-76	474,000	441,000	379,000	62,000	33,000
1976-77	487,000	453,000	389,000	64,000	34,000
1977-78	498,000	463,000	398,000	65,000	35,000
1978-79	512,000	476,000	409,000	67,000	36,000

Interpolated.

Estimated. Estimates were based on: (1) enrollments in 1966, 1967, and 1968; (2) the total number of professional persons in 1966-67 (converted to a position basis); and (3) the distribution of professional positions reported in 1963-64. (All reports prior to 1966-67 were in terms of positions, not persons. They previded different detail than did the 1966-67 report.)

3 The projection of full-time-equivalent of part-

time instructional staff for resident degree-credit courses is based on the following assumptions: (1) Full-time-equivalent of part-time instructor or above will remain constant to 1978-79 at the 1963-64 level of 33 percent, and (2) this percentage will apply to total junior instructional staff also and will remain constant to 1978-79. For methodological details, see appendix A,

table A-3.

NOTE: Data are for 50 States and the District of Columbia for all years. Because of rounding, detail may not add to totals.

SOURCES: U.S. Department of Health, tion, and Welfare, Office of Education publications: "Numbers and Characterispublications: "Numbers and Characteristics of Employees in Institutions of Higher Education, Fall 1966," and "Faculty and Other Professional Staff in Institutions of Higher Education," biennially, first term 1957-58 to 1963-64.



Table 32.—Total full-time and part-time professional staff positions in all institutions of higher education, by function: United States, first term 1958-59 to 1978-791

			Instructional s	taff		ther professional	teff
Year (fail)	Total professional staff ²	Total .	Resident degree-credit courses ³	Other instruction ⁴	Total	Administration and services ⁵	Oiganized research ⁶
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1958-59 ⁷	403,000 418,788 439,000 464,658 506,000 544,719 595,000 700,000 745,000 792,000	327,000 337,987 350,000 366,878 395,000 421,849 466,000 520,000 559,000 597,000 636,000	272,000 281,506 294,000 310,772 334,000 355,542 391,000 435,000 495,000 525,000	55,000 56,481 56,000 56,106 61,000 66,307 75,000 86,000 93,000 101,000 111,000	76,000 80,801 88,000 97,780 110,000 122,870 129,000 138,000 141,000 149,000	41,000 43,965 46,000 48,154 53,000 58,367 64,000 71,000 76,000 80,000 84,000	35,000 36,836 43,000 49,626 57,000 64,503 65,000 67,000 55,000 69,000
			PROJEC				73,000
1969-70	805,000 833,000 866,000 904,000 978,000 1,013,000 1,043,000 1,066,000 1,098,000	646,000 669,000 695,000 727,000 759,000 815,000 839,000 859,000 884,000	533,000 551,000 572,000 596,000 622,000 644,000 667,000 686,000 701,000 721,000	158,000	159,000 164,000 170,000 178,000 185,000 191,000 198,000 203,000 207,000 213,000	85,000 88,000 91,000 94,000 98,000 101,000 105,000 108,000 110,000	74,000 77,000 80,000 83,000 87,000 90,000 93,000 96,000 98,000 101,000

¹ Faculty tables are in terms of professional positions, not persons. The ratio of positions to persons in 1963-64 was approximately 1.1.

reported in 1963-64. (All reports prior to 1966-67 were in terms of positions, not persons. They provided different detail than did the 1966-67 report.) For organized research, the number of professional persons reported in 1966-67 was adjusted to a position basis.

The projections of total full-time and part-time instructional staff for resident Cagree-credit courses, instructional staff for other than degree-credit courses, professional staff for administration and services, and professional staff for organized research were computed separately by institutional control and type categories as outlined in tables 34 through 37, footnote 4, and summed for all institutions.

For further methodological details, see appendix A, table A-3.

NOTE: Data are for 50 States and the District of Columbia for all years. Because of rounding, detail may not add to totals.

SOURCES: U.S. Department of Health, Education, and Welfare, Office of Education publications: "Numbers and Characteristics of Employees in Institutions of Higher Education, Fall 1966," and "Faculty and Other Professional Staff in Institutions of Higher Education," biennially, first term 1957-58 to 1963-64.

Excludes professional staff for instruction at the elementary and secondary school level.

³ Includes faculty with rank of instructor or above, and junior instructional staff.

Includes instructional staff for extension courses; resident nondegree-credit courses; instruction by mail, radio, or TV; short courses, and Individual lessons.

Includes professional staff for general administration, student personnel services, and libraries. Excludes graduate students not performing research at a professional level and research consultants employed occasionally. Prior to 1966-67, includes professional staff engaged specifically for full-time or part-time research and those who have been relieved from some or all other duties in order to perform systematic organized research. Beginning in 1966-67, only those engaged primarily in organized research are included.

⁷ Interpolated.

Except for organized research, estimates were based on: (1) enrollments in 1966, 1967, and 1968; (2) the total number of professional persons in 1966-67 (converted to a position basis); and (3) the distribution of professional positions

Table 34.—Total full-time and part-time professional staff position: in 4-year publicly controlled institutions of higher education, by function: United States, first term 1958-59 to 1978-79¹

			Instructional st	aff	0:	ther professional s	taff
Year	Total professional staff	Total	Resident degree-credit courses	Other instruction	Total	Administration and services	Organized research
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1958-59 ²	193,000	158,000	122,000	35.000	35,000	14,000	21,000
1959-60	199,543	162,074	126,136	35,938	37,469	15,369	22,100
1960-61 ²	209,000	169,000	132,000	36,000	41,000	16,000	24,000
1961-62	222,282	177,354	140,541	36,813	44,928	17,510	27,418
1962-63 ²	247,000	195,000	155,000	40,000	52,000	20,000	32,000
1963-64	272,746	212,797	169,497	43,300	59,949	22,563	37,386
1964-65 ²	305,000	240,000	190,000	49,000	65,000	25,000	40,000
1965-66 ²	344,000	272,000	216,000	56,000	72,000	28,000	44,000
1966-67 ³	371,000	294,000	233,000	61,000	77,000	30,000	46,000
1967-68 ³	401,000	318,000	252,000	66,000	83,000	33,000	50,000
1968-69 ³	435,000	345,000	274,000	71,000	90,000	36,000	55,000
			PROJECT	ED ⁴			
1969-70	446,000	353,000	280,000	73,000	92,000	36,000	56,090
1970-71	464,000	368,000	292,000	76,000	96,000	38,000	58,000
1971-72	484,000	383,000	304,000	79,000	100,000	40,000	61,000
1972-73	509,000	404,000	320,000	83,000	106,000	42,000	64,000
1973-74	535,000	424,000	336,000	87,000	111,000	44,000	67,000
1974-75	555,000	440,000	349,000	91,000	115,000	45,000	70,000
1975-76	578,000	458,000	363,000	94,000	120,000	47,000	73,000
1976-77	599,000	474,000	377,000	98,000	124,000	49,000	75,000
1977-78	613,000	486,000	385,000	100,000	127,000	50,000	77,000
1978-79	635,000	503,000	399,000	104,000	132,000	52,000	80,000

¹ For exclusions and inclusions under the different categories of professional staff, see table 33, footnotes 1 through 6.
Interpolated.

The projection of total full-time and part-time instructional staff for other than resident degree-

credit courses, professional staff for administration and services, and professional staff for organized research, is based on the percentage each was of total full-time and part-time instructional staff for resident degree-credit courses in 1963-64. These percentages in 4-year public institutions were 26, 13, and 20, respectively, and are assumed to remain at the 1963-64 level to 1978-79.

For further methodological details, see appendix A. table A-3.

NOTE: Data are for 50 States and the District of Columbia for all years. Because of rounding, deteil may not add to totels.

SOURCES: U.S. Department of Health, Education, and Welfare, Office of Education publications: "Numbers and Characteristics of Employees in Institutions of Higher Education, Fall 1966," and "Faculty and Other Professional Staff in Institutions of Higher Education," biennially, first term 1957-58 to 1963-64.

Estimated. Except for organized research, estimates were based on: (1) enrollments in 1966, 1967, and 1968; (2) the total number of professional persons in 1966-67 (converted to a position basis); and (3) the distribution of professional pestitions reported in 1963-64. (All reports prior to 1966-67 were in terms of positions, not persons. They provided different detail than did the 1966-67 report.) For organized research, the number of professional persons reported in 1962-67 was adjusted to a position basis.

The projection of total full-time and part-time instructional staff for resident degree-credit courses in 4-year public institutions is based on the assumption that the ratio of total degree-credit enrollment to instructional staff for resident degree-credit courses in these institutions will follow the 1958-59 to 1963-64 trend.

Table 35.—Total full-time and part-time professional staff positions in 4-year privately controlled institutions of higher education, by function:

United States, first term 1958-59 to 1978-791

			Instructional st	eff	01	ther professional s	taff
Year	Total professional staff	Total	Resident degree-credit courses	Other	Total	Administration and services	Organized research
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1958·59 ²	172,000	137,000	128,000	9,000	35,000	22,000	14,000
1959-60	179,515	141,691	132,354	9,337	37,824	23,139	14,685
1960-61 ²	188,000	146,000	137,000	9,000	42,000	24,000	18,000
1961-62	198,635	151,763	143,347	8,416	46,872	24,791	22,081
1962-63 ²	210,000	159,000	149,000	9,000	51,000	27,000	24,000
1963-64	219,759	164,012	153,991	10,021	55,747	28,749	26,998
1964-65 ²	230,000	174,000	163,000	11,000	56,000	31,000	25,000
1965-66 ²	240,000	185,000	173,000	11,000	55,000	33,000	22,000
1966-67°	245,000	192,000	180,000	12,000	53,000	34,000	19,000
1967-68 ³	250,000	196,000	184,000	12,000	53,000	35,000	18,000
1968-69 ³	245,000	193,000	181,000	12,000	52,000	34,000	18,000
			PROJEC1	red ⁴			
1969-70	244,000	192,000	180,000	12,000	52,000	34,000	18,000
1970-71	247,000	194,000	182,000	12,000	53,000	35,000	18,000
1971-72	253,000	199,000	186,000	12,000	54,00C	35,000	19,000
1972-73	257,000	202,000	190,000	12,000	55,000	36,000	19,000
1973-74	264,000	207,000	194,000	13,000	56,000	37,000	19,000
1974-75	269 ,000	211,000	198,000	13,000	58,000	38,000	20,000
1975-76	274,000	215,000	202,000	13,000	59,000	38,000	26,000
1976-77	275,000	216,000	203,000	13,000	59,000	39,000	20,000
1977-78	277,000	218,000	205,000	13,000	59,000	39,000	20,000
1978-79	280,000	220,000	206,000	13,000	60,000	39,000	21,000

¹ For exclusions and inclusions under the different categories of professional staff, see table 33, footnotes 1 through 6.

The projection of total full-time and part-time instructional staff for other than resident degree-credit courses, professional staff for administration and services, and professional staff for organized research, is based on the percentage each was of total full-time and part-time instructional staff for resident degree-credit courses in 1963-64. These percentages in 4-year private institutions were 7, 19, and 10, respectively, and are assumed to remain at the 1963-64 level to 1978-79.

For further methodological details, see appendix A, table A-3.

NOTE: Data are for 50 States and the District of Columbia for all years. Because of rounding, detail may not add to totals.

SOURCES: U.S. Department of Health, Education, and Welfare, Office of Education publications: "Numbers and Characteristics of Employees in Institutions of Higher Education, Fall 1966," and "Faculty and Other Professional Staff in Institutions of Higher Education," biennially, first term 1957-58 to 1963-64.

²Interpoleted.

³Estimated. Except for organized research, estimates were based on: (1) enrollments in 1966, 1967, and 1968; (2) the total number of professional persons in 1968-67 (converted to a position basis); and (3) the distribution of professional positions reported in 1963-64. (All reports prior to 1966-67 were in terms of positions, not persons. They provided different detail than did the 1966-67 report.) For organized research, the number of professional persons reported in 1966-67 was adjusted to a position basis.

The projection of total full-time and part-time instructional staff for resident degree-credit courses in 4-year private institutions is based on the assumption that the ratio of total degree-credit enrollment to instructional staff for resident degree-credit courses in these institutions will follow the 1958-59 to 1963-64 trand.

Table 36.—Total full-time and part-time professional staff positions in 2-year publicly controlled institutions of higher education, by function:

United States, first term 1958-59 to 1978-79¹

	T-4-1		Instructional st	afí		ther professional s	taff
Year	Total professional staff	Total	Resident degree-credit courses	Other instruction	Total	Administration and services	Organized research
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1958-59 ²	28,000	25,000	17,000	8,000	3,000	3,000	12
1959-60	30,408	27,440	18,405	9,035	2,968	2,961	7
1960-61 ²	32,000	29,000	20,000	9,000	3,000	3,000	8
1961-62	34,382	30,966	22,062	8,904	3,416	3,406	10
1962-63 ²	38,000	34,000	24,000	10,000	4,000	4.000	24
1963-64	41,462	37,365	26,545	10,820	4,097	4,055	42
1964-65 ²	48,000	43,000	31,000	12,000	5,000	5,000	Ĺ
1965-66 ²	58,000	53,000	38.000	15.000	6,000	6,000	Ē
1966-67°	69,000	62,000	44,000	18.000	7,000	7,000	Ĺ
1967-68 ³	79,000	71,000	51,000	21,000	9.000	8,000	Ē
1968-69 ³	96,000	86,000	62,000	25,000	9,000	9,000	Ĺ
			PROJECT	ED ⁴	_		
1969-70	99,000	90,00C	64,000	26,000	10,000	10,000	L
970-71	105,000	95,000	68,000	27,000	10,000	10,000	L
971-72	112,000	101,000	72,000	29,000	11,000	11,000	L
972-73	120,000	108,000	77,000	31,000	12,000	12,000	L
973-74	127,000	115,000	82,000	33,000	12,000	12,000	L
974-75	135,000	122,000	87,000	35,000	13,000	13,000	L
975-76	142,000	128,000	91,000	37,000	14,000	14,000	L
976-77	149,000	135,000	96,000	39,000	14,000	14,000	Ĺ
977-78	155,000	140,000	100,000	40,000	15,000	15,000	Ī
1978-79	162,000	146,000	104,000	42,000	16,000	16,000	Ĺ

L = less than 500.

will follow the 1958-59 to 1963-64 trend.

The projection of total full-time and part-time instructional staff for other than resident degree-

credit courses, professional staff for administration and services, and professional staff for organized research, is based on the percentage each was of total full-time end part-time instructional staff for resident degree-credit courses in 1963-64. These percentages in 2-year public institutions were 40, 15, and 0.05, respectively, and are assumed to remain at the 1963-64 level to 1978-79.

For further methodological details, see appendix A, table A-3.

NOTE: Data are for 50 States and the District of Columbia for ell years. Because of rounding, detail may not add to totals.

SOURCES: U.S. Department of Health, Education, and Welfare, Office of Education publications: "Numbers and Characteristics of Employees in Institutions of Higher Education, Fall 1966," and "Faculty and Other Professional Staff in Institutions of Higher Education," blennially, first term 1957-58 to 1963-64,



¹ For exclusions and inclusions under the different categories of professional staff, see table 33, footnotes 1 through 6,

² interpolated.

Estimated. Except for organized research, estimates were based on: (1) enrollments in 1966, 1967, and 1968; (2) the total number of professional persons in 1966-67 (converted to a position basis); and (3) the distribution of professional positions reported in 1963-64. (All reports prior to 1966-67 were in terms of positions, not persons. They provided different detail than did the 1966-67 report.) For organized research, the number of professional persons reported in 1966-67 was adjusted to a position basis.

The projection of total full-time and part-time instructionel steff for resident degree-credit courses in 2-year public institutions is based on the assumption that the ratio of total degree-credit enrollment to instructional staff for resident degree-credit courses in these institutions will follow the 1958-59 to 1963-64 trend.

Table 37.—Total full-time and part-time professional staff positions in 2-year privately controlled institutions of higher education, by function: United States, first term 1958-59 to 1978-791

			Instructional st	aff	01	ther professional s	taff
Year	Total professional staff	Total	Resident degree-credit courses	Other instruction	Total	Administration and services	Organized research
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1958-59 ²	9,700	7,200	5,200	2,100	2,500	2,500	L
1959-60	9,322	6,782	4,611	2,171	2,540	2,496	44
1960-61 ²	9,300	6,800	4,700	2,100	2,500	2,500	100
1961-62	9,359	6,795	4,822	1,973	2,564	2,447	117
1962-63	10,400	7.500	5,300	2,100	2,900	2,800	100
1963-64	10,752	7.675	5,509	2,166	3,077	3,000	77
1964-65 ²	13,200	9,400	6,800	2,600	3,800	3,710	100
1965-66 ³	15,200	10,900	7,800	3,000	4,400	4,300	100
1966-67 ³	15,500	11,100	8,000	3,100	4,500	4,400	100
1967-68 ³	15,500	11,000	7,900	3,100	4,400	4,400	100
1968-69 ³	16,600	11,900	8,500	3,300	4,800	4,700	100
			PROJECT	ED ⁴			
1969-70	16,600	11,900	8,500	3,300	4,800	4,700	100
1970-71	17,100	12,200	8,700	3,400	4,900	4,800	100
1971-72	17,500	12,500	9,000	3,500	5,000	4,900	100
1972-73	18,200	12,900	9,300	3,600	5,200	5,100	100
1973-74	18,700	13,300	9,600	3,700	5,400	5,300	100
1974-75	19,100	13,600	9,800	3,800	5,500	5,400	100
1975-76	19,600	14,000	10,000	3,900	5,600	5,500	100
1976-77	20.000	14,200	10,200	4,000	5,700	5,600	100
1977-78	20,300	14,500	10,400	4,100	5,800	5,700	100
1978-79	20.900	14,900	10,700	4,200	6,000	5,900	100

¹For exclusions and inclusions under the different categories of professional staff, see table 33, footnotes 1 through 6.

²Interpolated.

Estimeted. Except for organized research, estimates were based on: (1) enrollments in 1966, 1967, and 1968; (2) the total number of professional persons in 1966-67 (converted to a position basis): and (3) the distribution of professional positions reported in 1963-64. (All reports prior to 1966-67 were in terms of positions, not persons. They provided different detail than did the 1966-67 report.) For organized research, the number of professional persons reported in 1966-67 was adjusted to a position basis.

⁴The projection of total full-time and part-time instructional staff for resident degree-credit courses in 2-year private institutions is based on the as-sumption that the ratio of total degree-credit enrollment to instructional staff for resident degree-cradit courses in these institutions will follow the 1958-59 to 1963-64 trend.

The projection of total full-time and part-time instructional staff for other than resident degreecredit courses, professional staff for administration and services, and professional staff for organized research, is based on the percentage each was of total full-time and part-time instructional staff for resident degree-credit courses in 1963-64. These percentages in 2-year private institutions were 39, 55, and 1 percent, respectively, and are assumed to remain at the 1963-64 level to 1978-79.

For further methodological details, see appendix A, table A-3.

NOTE: Data are for 60 States and the District of Columbia for all years. Because of rounding, detail may not add to totals.

SOURCES: U.S. Department of Health, Educa-tion, and Welfare, Office of Education publications: "Numbers and Character-istics of Employees in Institutions of Higher Education, Fall 1966," and "Faculty and Other Professional Staff in Insti-tutions of Higher Education," blennially, first term 1957-58 to 1953-64.



Table 38.—Estimated full-time-equivalent professional staff in all institutions of higher education, by function: United States, first term 1958-59 to 1978-791

	Total full-time-		ull-time-equiva instructional st			ull-time-equivale ner professional s	
Year (fall)	equivalent professional staff	Total	Resident degree-cradit courses	Other instruction	Total	Administration and services	Organized research
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
 1958-59	287,000	233,000	194,000	39,000	54,000	29,000	25,000
1959-60	298,000	241,000	201,000	40,000	57,000	31,000	26,000
1960-61	313,000	250,000	210,000	40,000	63,000	32,000	31,000
1961-62	332,000	261,000	222,000	40,000	70,000	34,000	36,000
1962-63	359,000	281,000	237,000	44,000	79,000	38,000	41,000
1963-64	387,000	299,000	252,000	47,000	87,000	41,000	46,000
1964-65	423,000	331,000	278,000	53,000	92,000	45,000	46,000
1965-66	467,000	370,000	309,000	61,000	98,000	50,000	47,000
1966-67	497,000	397,000	331,000	66,000	100,000	54,000	46,000
1967-68	530,000	424,000	352,000	72,000	106,000	57,000	49,000
1968-69	563,000	452,000	373,000	79,000	111,000	60,000	52,000
			PROJECT	red			
1969-70	572,000	459,000	378,000	81,000	113,000	60,000	53,000
1970-71	592,000	475,000	391,000	84,000	117,000	62,000	54,000
1971-72	615,000	494,000	406,000	88,000	121,000	64,000	57,000
1972-73	642,000	516,000	424,000	92,000	126,000	67,000	59,000
1973-74	671,000	539,000	442,000	97,000	131,000	70,000	62,000
1974-75	695,000	559,000	458,000	101,000	136,000	72,000	64,000
1975-76	720,000	579,000	474,000	105,000	141,000	74,000	66,000
1976-77	741,000	596,000	487,000	109,000	144,000	76,000	68.000
1977-78	757,000	610,000	498,000	112,000	147,000	78,000	69,300
1978-79	780,000	623,000	512,000	116,000	151,000	80,000	71,000

¹ For the categories of professional staff members included in this table, see footnotes 2 through 6, table 33.

The estimation, 1958-59 to 1968-69, and the projection, 1969-70 to 1978-79, of the full-time equivalent of reported and projected total full-time and part-time professional staff for instructional courses other than degree-credit, for administration and services, and for organized research, is based on the assumption that the percent that full-time-equivalent instructional staff for resident degree-credit courses is of total full-time and part-time instructional staff for these courses (71 percent in 1963-64) will apply to all other professional staff as well. The totals of full-time and

part-time staff shown in table 33 were multiplied by this percentage.

For further methodological details, see appendix A, table A-3.

NOTE: Data are for 50 States and the District of Columbia for all years. Because of rounding, detail may not add to totals.

SOURCES: U.S. Dapartment of Health, Education, and Welfare, Office of Education publications: (1) "Numbers and Characteristics of Employees in Institutions of Higher Education, Fall 1966," and (2) "Faculty and Other Professional Staff in Institutions of Higher Education," biennially, first term 1957-58 to 1963-64.



Table 39.—Estimated demand for full-time-equivalent professional staff in institutions of higher education, by function: United States, first term 1963-64 to 1978-791

		Full-time-eq	uivalent profe	ssional staff	,2		nal full-time-e ssional staff n	
		Instructi	onal staff					
Year (fall)	Total	Resident degree- credit courses	Other instruction	Adminis- tration and services	Organized research	Total	For increaded enrollment	For replace- ment
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
1963-64	387,000	252,000	47,000	41,000	46,000	••••		• • •
1964-65	423,000	278,000	53,000	45,000	46,000	60,000	36,000	23,000
1965-66	467,000	309,000	61,000	50,000	47,000	70,000	44,000	25,000
1966-67	497,000	331,000	66,000	54,000	46,000	58,000	30,000	28,000
1967-68	530,000	352,000	72,000	57,000	49,000	62,000	33,000	30,000
1968-69	563,000	373,000	79,000	60,000	52,000	65,000	33,000	32,000
1964-69	2,480,000	1,642,000	331,000	266,000	241,000	315,000	176,000	138,000
			PRO	JECTED ³				
1969-70	572,000	378,000	81,000	60,000	53,000	43,000	9,000	34,000
1970-71	592,000	391,000	84,000	62,000	54,000	54,000	20,000	34,000
1971-72	615,000	406,000	88,000	64,000	57,000	59,000	23,000	36,000
1972-73	642,000	424,000	92,000	67,000	59,000	64,000	27,000	37,000
1973-74	671,000	442,000	97,000	70,000	62,000	67,000	29,000	39,000
1969-74	3,092,000	2,042,000	442,000	324,000	284,000	287,000	108,000	179,000
1974-75	695,000	458.000	101,000	72,000	64,000	64,000	24,000	40,000
1975-76	720,000	474,000	105,000	74,000	66,000	67,000	25,000	42,000
1976-77	741,000	487,000	109,000	76,000	68,000	64,000	21,000	43,000
1977-78	757,000	498,000	112,000	78,000	69,000	61,000	17,000	44,000
1978-79	780,000	512,000	116,000	80,000	71,000	68,000	22,000	45,000
1974-79	3,692,000	2,429,000	544,000	381,000	339,000	324,000	109,000	215,000

¹ For the categories of professional staff members included in this table, see table 33, footnotes 2 through 6.

For methodological details, see appendix A, table A-3.

NOTE: Data are for 50 States and the District of Columbia for all years. Because of rounding, detail may not add to totals.

SOURCES: U.S. Department of Health, Education, and Welfare, Office of Education publications: "Numbers and Characteristics of Employees in Institutions of Higher Education, Fall 1966," and "Faculty and Other Professional Staff in Institutions of Higher Education," biennially, first term 1957-58 to 1963-64.



²For the method of estimating and projecting fulltime-equivalent professional staff, see table 32, footnote 4, and table 38, footnote 1.

The projection of additional full-time-equivalent professional staff for increased enrollment was computed as the difference between the total full-time-equivalent professional staff employed in two successive years. The projection of additional full-time-equivalent professional staff for replacement of those leaving the profession, temporarily or permanently, was estimated at 6 percent of the total full-time-equivalent professional staff employed in the previous year.

CHAPTER V

Expenditures of Educational Institutions

Forrest W. Harrison and C. George Lind

Explanations and definitions

The main tables in this chapter include only expenditures of regular public and nonpublic elementary and secondary schools and institutions of higher education in the 50 States and the District of Columbia. This means that "other" and "special" institutions are not included.

"Other" institutions include elementary and secondary residential schools for exceptional children (public and nonpublic), Federal schools for Indians (public), and federally operated elementary and secondary schools on military posts (public). In 1968-69, it is estimated that expenditures of "other" schools were about \$200 million for public and \$100 million for nonpublic schools in this category. Almost all "other" schools, including the nonpublic, are nonprofitmaking institutions.

"Special" institutions include schools such as trade schools or business colleges not in the regular school or college framework. Expenditure data are not available for "special" schools, but it is estimated that they spend approximately \$900 million per year. This supposition is based on a U.S. Bureau of the Census estimate that 1.5 million persons, aged 5 to 34 years, were enrolled in "special" schools in October 1968. If an average expenditure per student of about \$600 is assumed, the total expenditures for these schools would be about \$900 million. Almost all "special" schools are nonpublic profitmaking institutions.

Regular institutions include public and most nonprofit-making nonpublic elementary and secondary schools (kindergarten through grade 12) plus the institutions of higher education offering degree-credit courses, and a small number of technical and professional schools. Most of these schools and colleges are oriented toward regular academic programs, but some of them are primarily technical training institutions or offer both academic and vocational courses. As noted, the main tables and discussions here are for these regular institutions. However, "other" schools are included in the discussion and table on pages 74 and 75-79.

Total expenditures include all funds expended for capital outlay, current expenditures, and interest. They exclude repayment of debt and transfers of funds that would result in duplication.

Capital outlay includes expenditures which result in additions to plant assets; this includes the expenditures by public school building authorities but excludes lease or rental payments made to these agencies. Borrowed money is included; a large percentage of the funds expended for capital outlay was received from loans. In 1965-66, it is estimated that 83 percent of the capital outlay for public elementary and secondary schools was for land and buildings; the remaining 17 percent, for new school buses and other equipment. The proportion for equipment could be higher than 17 percent in 1968-69 because a substantial amount of the funds available from the Elementary and Secondary Education Act of 1965 was spent for equipment. About 81 percent of the capital outlay by institutions of higher education was for land and buildings; the remaining 19 percent, for equipment.

Current expenditures include any expenditures except those for repayment of debt and capital outlay. Interest is generally excluded from the current expenditures shown here because it is treated separately. The largest current expense item is salaries of instructional staff, accounting for about 62 percent of current expenditures. The remaining 38 percent goes for transportation, maintenance, etc.

 $^{^1}$ U.S. Department of Commerce, Bureau of the Census, "Current Population Reports, School Enrollment: Cctober 1968 and 1967." Series P-20, No. 190, 1969.



Interest includes all funds expended for the use of money. Most of the interest shown here was expended on account of long-term debt that was incurred for constructing buildings.

Expenditures by source of funds

Regular and "other" schools

Although no attempt was made to project amounts of funds from the various sources to be expended by educational institutions, estimates are shown by source for the past 11 years. To do this, estimates for "other" schools were added to the total expenditures shown in table 40 for the appropriate years. The resulting total expenditures for regular and "other" schools were then broken down by source of funds by first adjusting receipts to equate them with expenditures and then assuming a continuation of the 1959-60 through 1965-66 trend in the amount of receipts from each source. Receipts and expenditures were equated mainly by including loans and excluding the receipts used for repayments of loans.

Total expenditures are defined as the expenditure of all money from both loans and grants and exclude only the funds used for reducing debt and transfers that result in duplication. Expenditures from Federal, State, and local sources are defined as institutional expenditures of all grants (but not loans) of funds received from those sources. Expenditures from all other sources include all funds received by the institutions that were not received as grants from Federal, State, and local governments. Loans to institutions of higher education from any source are included under "all other." (It is estimated that in 1968-69, \$308 million in Federal loans to institutions of higher education was included in the "all other" category shown here.)

Since the foregoing definitions are designed to show sources of funds through the eyes of educational institutions, the Federal figures shown in the preceding table are different from those shown in appendix B, table B-10 on Federal funds for education. The three main reasons are as follows:

- (1) Different items are included. For example, the table on Federal funds in appendix B shows grants and loans to individuals, which would appear in institutional accounts here as receipts from tuition or auxiliary services; or the money may be spent for board and room outside the institution and not be a receipt of the institution from any source.
- (2) The same items may be handled differently. For example, the table on Federal funds shows only basic research for institutions of higher education; the institutions include some applied research grants from the Federal Government.
- (3) The table on Federal funds generally shows obligated funds; the institutional figures show expenditures.

Total expenditures

Regular institutions (table 40)

Total annual expenditures of regular educational institutions (in 1968-69 dollars) increased from \$28.5 billion in 1958-59 to \$61.1 billion in 1968-69 and are expected to be \$87.4 billion in 1978-79. The expenditure increases are due chiefly to increases in enrollment at all levels of education, especially in high schools and colleges, and the increasing costs of the many items such as school facilities and salaries of teachers that are necessary for providing education. The projected total expenditures are shown in table 40. They are based mainly on the assumptions that the 1958-59 to 1968-69 trend will continue through 1978-79 and that some additional amounts (above trend) will be expended because of the effects of the Elementary and Secondary Education Act of 1965.



Estimated expenditures by regular and "other" educational institutions, by source of funds: United States, 1959-60 to 1969-70¹

Source of funds, by control and level	1959-60	1961-62	1963-64	1965-66	1966-67	1967-68	1968-69	1969-70
· •	(2)	(3)	(4)	(2)	(9)	(2)	(8)	(6)
	AMO	AMOUNT, in billions of current dollars	ns of current	dollars				
All levels: Total, public and nonpublic	\$24.7	\$29.8	\$36.1	\$45.4	8.649.8	\$54.9	\$61.4	\$658
Federal	1.8	2.4	3.1	4.9	5.8	9.9	7.2	7.7
State	7.3	8 9	¿0.7	13.1	14.2	15.9	18.3	19.8
Local	9.5 6.1	11.1 7.5	12.8 9.5	15.2 12.2	16.1 13.7	17.7	20.0 15.9	21.4 16.9
Total, public	19.7	23.4	28.0	35.3	38.9	43.5	49.3	53.1
Forteral	6.	1.6	2.0	3.5	4.2	4.9	5.3	5.6
e total	7.3	8.7	10.6	13.0	14.1	15.8	18.2	19.7
Local	9.6	11.1	12.8	15.2	16.1	17.7	20.0	21.4
All other	1.6	2:0	2.6	3.6	45	5.1	58	6.4
Total, nonpublic	5.0	6.4	8.1	10.1	10.9	11.4	12.1	12.7
FederalShare	.5	α; 	<u> </u>	4.	1.6	7.1	6. L.	
Local	(²)	7, (3 5, 5	(₂)	(²)	(²)	(₂)	(²) 10.1	(²) 10.5
Elementary and secondary schools:	α	213	24.8	30.2	32.3	35.8	40.1	1.63
	•	1	1	}	i			
Federal	8. 5.7	6. 8.9	9. 8. 9. 1.	9 20 9 9	2.5 10.3	2.9 11.5	2.9 13.3	2.9 14.6
Local	9.3	10.9	12.5	14.8	15.6	17.2	19.4	20.8
All other	2.2	2.7	ю 6	e E		4.2	4. U	4 6

See footnotes at end of table.

Estimated expenditures by regular and "other" educational institutions, by source of funds: United States, 1959-60 to 1969-70¹—Continued

(1)	(2)	(3)	(4)	(5)	(9)	(2)	(8)	(6)
	AMO	UNT, in billio	AMCUNT, in billions of current dollars	follars		į		
Total, public ⁴	\$15.9	\$18.7	\$21.6	\$26.5	\$28.5	\$31.7	\$35.7	\$38.5
Federal	œ	Q	đ	2.0	2.5	2.9	2.9	2.9
:	5.7	89	8.1	9.6	10.3	11.5	13.3	14.6
Local	6.9	10.9	12.5	14.8	15.6	17.2	19.4	20.8
All other	7.		۳.	٠.	-	Ψ.	- .	4
Total, nonpublic	2.1	2.6	3.2	3.7	8 9	4.	4.4	* .6
Local	2.1	2.6	3.2	3.7	3.8	4.1	4.4	4.6
Institutions of higher education: Total, public and nonpublic	6.7	8.5	11.3	15.2	17.5	19.1	21.3	7.22
Federal	1.0	1.5	2.2	2.9	3.3	3.7	4.3	4.8
State	1.6	2.0	2.6	3.5	3.9	4.4	2.0	5.2
Local	.2	Ċ.	ų	4	ιċ	ιų	Ø.	Ö
All other	3.9	4.8	6.2	8.4	8.6	10.5	11.4	12.1
Total, public ⁴	38	4.7	6.4	8.8	10.4	11.8	13.6	14.6
Federai	гd	7:	1:1	1.5	1.7	2.0	2.4	2.7
State	1.6	1.9	2.5	3.4	3.8	4.3	4.9	5.1
Local	C;	7	ų	4	τů	τύ	Ø.	Φ.

Total, nonpublic ⁴	2.9	3,8	4.9	6.4	7.1	7.3	7.7	8.1
Federal	0.5	970	:	1.4	1.6	1.7	1.9	2.1
State	(°)	¢		₽,¢	चन्द्र हो	¢	4,6	:
All other	(<u> </u>	(<u>)</u>	(,)	ĵ.	(°)	(1)	(2)	(₂)
		3	3	6.4	**6	6.6	7.6	R C
		PERCENT	ENT					
All levels:								
lotal, public and nonpublic	0.00	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Federal	7.3	2.1	8.6	10.8	11.7	12.0	11.7	11.7
	29.5	29.5	29.6	28.8	28.5	29.0	29.8	30.1
Local	38.5	37.2	35.5	33.5	32.3	32.2	32.6	32.5
All other	24.7	25.2	26.3	26.9	27.5	26.8	25.9	25.7
Total, public	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Federal	6.6	8.8	1.7	66	10.8	11.3	10.7	10.5
	37.1	37.2	37.9	36.8	36.2	36.3	36.9	37.1
	48,2	47.4	45:7	43.1	41.4	40.7	40.6	40.3
All other	8.1	9. 9.	9.3	10.2	11.6	11.7	11.8	12.1
Total, nonpublic	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	10.0	12.5	13.6	13.9	14.7	14.9	15.7	16.5
State	_E)	1.6	1.2	1.0	οį	οį	œ	αį
Local	(3)	(₃)	€)	(_è)	(3)	(₃)	(3)	(₃)
All other	0.06	85.9	85.2	85.1	84.4	84.2	83.5	82.7
See footnotes at end of table.								

Estimated expenditures by regular and "other" educational institutions, by source of funds: United States, 1959-60 to 1969-701 —Continued

Source of funds, by control and levei	1959-60	1961-62	1963-64	1965-66	1966-67	1967-68	1968-69	1969-70
Œ	(2)	(3)	(4)	(2)	(9)	(2)	(8)	(6)
		PER	PERCENT					
Elementary and secondary schools: Tote!, public and nonpublic	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Federal	4.4	4.2	3.6	9.9	7.7	 1	7.2	6.7
	31.7	31.9	32.7 50.4	31.8 49.0	2. 48.3	32.1 48.1	48.4 48.4	.18.3
All other	12.2	12.7	13.3	12.6	12.1	11.7	11.2	11.1
Total, public4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	4.9	4.8	4.2	7.4	8.8	9.0	8.0	7.6
	35.6	36.2	37.5	36.4	36.2	36.4	37.3	37.9
	59.2	58.7	57.9	55.9	54.7	54.3	54.4	54.1
All other	e.	C,	4.	ιά	ωį	ω	ω	₫.
Total, nonpublic	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Federal State								
Local	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

Institutions of higher education:	;							
Total, public and nenpublic	0.00	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Federal	14.9	17.6	19.5	19.1	18.9	19.4	20.2	21.2
State	23.9	23.5	23.0	23.0	22.3	23.0	23.5	22.9
Local	3.0	2.4	2.6	2.6	2.8	2.6	2.8	2.6
All other	58.2	56.5	54.9	55.3	26.0	55.0	53.5	53.3
Total, public ⁴	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Federal	14.7	15.5	16.7	17.1	16.7	17.2	. 17.7	18.2
State	41.1	40.7	39.4	38.5	37.0	36.4	35.8	35.3
Local	4.6	4.2	£.4.	4.1	4.4	4.3	4.2	4.1
All other	39.6 30.6	39.6	39.6	40.3	41.9	42.1	42.3	45.4
Total, nonpublic ⁴	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Federal	17.0	20.4	22.9	21.6	22.3	23.3	24.3	25.3
State	1.4	4.	1.2	4.1	4.1.	1.4	1.4	1.4
Local	٦.	κi	4	7	4.	4.	4	4.
All other	81.5	78.0	75.7	76.8	75.9	74.9	73.9	72.9

In addition to regular schools (shown in table 41) these figures include "other" elementary and secondary schools such as residential schools for exceptional children, Pederal schools for Indians, and federally operated elementary and secondary schools on posts. The annual expenditures of "other" elementary and secondary schools were estimated as follows:

SOURCES: Data for the table above were based on statistics shown in U.S. Department of Health, Education, and Welfare, Office of Education publications; (1) "Statistics of State School Systems," 1957-59, 1959-60, 1961-62, 1963-64, and 1965-66; (2) "Statistics of Fublic Schools," fall 1964, 1965, 1965, 1967, and 1968; (3) "Financial Statistics of Higher Education," 1957-58, 1959-60, 1961-62, 1963-64, 1965-66, and 1966-67; (4) "Digest of Educational Statistics," 1968; and unpublished data in the U.S. Office of Education. NOTE: Data are for 50 States and the District of Columbia for all years. Because of rounding, detail may not add to totals.

⁴Total expenditures distributed according to the trend of receipts shown in appendix B, table B-9. See text for more complete explanation.

CHARLES CONTRACTOR OF THE PARTY OF THE PARTY

Public, Millions ³Less than 0.05 percent. Years

Less than \$50 million. Less than \$50 million. \$100 million. Nonpublic

Regular public elementary and secondary schools (tables 40, 42)

Current expenditures

Annual current expenditures for public elementary and secondary schools (in 1968-69 dollars) increased from \$18.1 billion in 1958-59 to \$35.5 billion in 1968-69, an increase of 96 percent. They are expected to increase 32 percent to \$46.7 billion by 1978-79. These projections include the increased expenditures expected because of the Elementary and Secondary Education Act of 1965.

Increased enrollment together with increased costs per pupil have accounted for the increase in current expenditures. Expenditures have been increasing and are expected to continue to increase for practically all of the major items included in current expense, such as administration, instruction, operation and maintenance of plant, fixed charges, and other school services and programs. Annual current expenditures per pupil (in 1968-69 dollars) increased from \$440 in 1958-59 to \$696 in 1968-69 and are expected to increase to \$885 by 1978-79. The last two figures include the effects of the Elementary and Secondary Education Act of 1965.

Projected current expenditures for public elementary and secondary day schools are shown in table 42. They were projected as follows:

- (1) Current expenditures per pupil in average daily attendance (ADA) for the base years 1958-59 to 1968-69 were converted to 1968-69 dollars on the basis of the Consumer Price Index prepared by the Bureau of Labor Statistics, U.S. Department of Labor. Monthly index numbers were averaged on a July-June basis to correspond to the school years.
- (2) The current expenditures per pupil for the years 1958-59 to 1964-65 were used in deriving a formula (by least squares) for projecting trend figures for 1965-66 to 1968-69. This formula was y'=\$421+\$19(t) (t=time in years, t=1 in 1958-59).
- (3) Average daily attendance was calculated for 1969-70 to 1978-79 by assuming that the ratio of average daily attendance to projected fall enrollment in kindergarten through grade 12 will remain constant at 92.7 percent (the average of the years 1963-64 through 1968-69).
- (4) Total current expenditures (excluding effects of the Elementary and Secondary Education Act, 1965) allocated to public elementary and secondary school pupil costs (1968-69 dollars) were projected for 1965-66 to 1978-79 by multiplying the current expenditures per pupil, as projected in step (2), by the corresponding average daily attendance projected in step (3). These figures exclude expenditures for summer schools, adult education, and community colleges operated by school districts.
- (5) Total current expenditures (excluding effects of the Elementary and Secondary Education Act, 1965) for all programs operated by school districts—including summer schools, adult education, and community colleges—were projected for †965-66 to 1978-79 by assuming that current expenditures for all programs remain constant at the 1967-68 rate of 103.5 percent of current expenditures allocated for public elementary and secondary school pupil costs.
- (6) Current expenditures per pupil (including the Elementary and Secondary Education Act, 1965) allocated to public elementary and secondary pupil costs were projected by adding \$70 to the figures projected in step (2). (In 1968-69 the current expenditure per pupil reported by State departments of education was \$70 higher than the trend figure for 1968-69 derived in step (2).)
- (7) Total current expenditures allocated to pupil costs (including the effects of the Elementary and Secondary Education Act of 1965) were projected by multiplying the current expenditures per pupil, as projected in step (6), by the corresponding average daily attendance projected in step (3).
- (8) Total current expenditures for all programs operated by school districts (including the effects of the Elementary and Secondary Education Act) were projected by multiplying the figures in step (7) by 103.5 percent.



Salaries of instructional staff (tables 43, 29)

A large part of current expenditures for public elementary and secondary schools is for salaries of instructional staff (amounting to 62 percent in 1968-69). Total expenditures for these salaries (in 1968-69 dollars) increased from \$8.6 billion in 1958-59 to \$17.7 billion in 1968-69, and are expected to be \$26.4 billion in 1978-79. These increases are due to larger numbers of instructional staff and to higher average annual salaries. The amounts for 1965-66 to 1978-79 also reflect the larger number of instructional staff expected on account of the Elementary and Secondary Education Act of 1965.

The average annual salary of instructional staff (in 1968-69 dollars) increased from \$6,075 in 1958-59 to \$8,200 in 1968-69 and is expected to be \$11,000 in 1978-79. During the past 10 years, the average annual salary has been increasing about \$200 per year in 1968-69 dollars. The projected figure for 1978-79 (\$11,000) is based on the assumption that the 1958-59 to 1964-65 trend will continue to 1978-79.

Projected total and average annual salaries of instructional staff in public elementary and secondary schools are shown in table 43. The procedure was as follows:

The average annual salary (y) was projected as a continuation of the 1958-59 to 1964-65 trend: y'=\$5775+\$217(t) (t=time in years, t=1 in 1958-59).

Total expenditures for salaries of instructional staff were then computed as the product of the average annual salary and the total number of instructional staff. (The total number of instructional staff was taken from table 29.)

Classroom construction and capital outlay (table 44)

Capital outlay (in 1968-69 dollars) by regular public elementary and secondary schools, including the expenditures of State and local school building authorities, was \$19.6 billion for the 5-year period 1959-60 to 1963-64, and \$22.9 billion for the following 5-year period, 1964-65 to 1968-69. It is expected to be \$24.5 billion for 1969-70 to 1973-74 and \$26.0 billion for 1974-75 to 1978-79.

Projected expenditures for capital outlay together with projections of classroom construction are shown in table 44. They are not projections of need but are simply projections of the classroom construction and capital outlay expected in the light of the 1959-60 to 1968-69 trend. The procedure was as follows:

- (1) The total number of rooms completed was projected on the basis of the 1959-60 to 1968-69 trend: y'=78,114-247(t) (t=time in years, t=1 in 1958-59). The basic data and projections are shown in table 44.
- (2) Capital outlay was pajected by multiplying the number of rooms completed by the projected capital outlay per room according to the 1958-59 to 1968-69 trend. The projected figures range from \$63,000 to \$70,000 per room, in 1968-69 dollars.

The basic data and projections are shown in table 44.

It should be noted that not all the capital outlay shown here represents construction. It was estimated that, in 1965-66, 2 percent of capital outlay was for transportation equipment, 15 percent for other equipment, and 83 percent for land and buildings.

We may expect a sharp decrease in the number of rooms to be completed on account of enrollment increases and a sharp increase in the number completed for other reasons. Other reasons include: (1) replacements (abandonments), (2) migration factors (including school district reorganization), and (3) reduction of crowded and unsatisfactory rooms. Data limitations do not permit an exact analysis of these three factors. Since there are some indications that the number of crowded and unsatisfactory rooms did not change substantially during the period of time between the studies of 1962 and 1964-65 (see table, p. 82), it seems safe to assume that almost all of the rooms built during that time were used to take care of migration factors. That



the number of crowded and unsatisfactory rooms was not reduced during the 3-year period is indicated in Office of Education studies on school facilities for 1962 and 1964-65. The following information was selected from those two studies:

Item	1962	1964-65
Number of additional public schoo! classrooms needed:		
To eliminate off-site	6.000	14,000
To eliminate nonpermanent	31,000	31,000
To eliminate improvised or makeshift	28,000	31,000
To eliminate rooms in buildings with four or more defects	NA	158,000
To achieve a pup!!-room ratio for all students of:		•
27.6 elementary and 26.3 secondary pupils	117,000	,
27.4 elementary and 27.5 secondary pupils		98,000
25 elementary and 20 secondary pupils	272,000	285,000
U.S. median pupil-room ratio	¹ 27.6 ·	¹ 27.4
	² 26.3	² 27.

NA - Not available.

In 1964-65 the number of additional rooms which would have eliminated the use of off-site, nonpermanent, and improvised or makeshift rooms was 76,000 and the number for replacing rooms in buildings with four or more defects was 158,000. Another 98,000 rooms would have been needed to permit all public school pupils to be in rooms with an average of 27 pupils. If they were to be accommodated in rooms with no more than 25 elementary or 20 secondary pupils, the additional number needed would have been 285,000.

Interest expenditures (table 45)

Annual expenditures (in 1968-69 dollars) for interest by public elementary and secondary schools increased from \$512 million in 1958-59 to over \$1.015 billion in 1968-69 and are expected to be \$1.58 billion in 1978-79. Projected interest is shown in table 45. The projections are based on the assumption that the 1958-59 to 1968-69 upward trend will continue through 1978-79. Although capital outlay is expected to level off in the next decade, this assumption seems reasonable because interest payments continue 20 years or more after construction, resulting in debt being incurred at a greater rate than it is being eliminated. The trend formula for projecting interest (y) in 1968-69 dollars was as follows: y'=\$389+\$57(t) (t=time in years, t=1 in 1958-59).

Nonpublic elementary and secondary schools (tables 40, 41, 26)

Expenditure data for nonpublic elementary and secondary schools comparable to those for public schools are nonexistent. The main reason is that it is extremely difficult to arrive at a universally accepted method for determining the value of donated services for nonpublic schools, even if data on actual expenditures were collected. These donated services make up a substantial part of nonpublic school resources, especially in the elementary and secondary schools operated by religious croers. In 1965-66, over three-fourths of the nearly 200,000 nonpublic school teachers belonged to religious orders of the Roman Catholic Church. Also, it might be argued that many of the remaining nonpublic school teachers, whose salaries generally run lower than those in public schools, really donated part of their services.

¹U.S. Department of Health, Education, and Welfare, Office of Education, "Netional Inventory of School Facilities and Personnel, Spring 1962," by George J. Collins, and "Condition of Public School Plants, 1964-65," by George J. Collins and William L. Stormer.



¹Elementery schools.

²Secondary schools.

Although it is difficult to arrive at national estimates of nonpublic school expenditures that everyone will accept, the substantial contribution of nonpublic elementary and secondary schools cannot be ignored when total expenditures for education are being considered. Therefore, illustrative estimates of nonpublic elementary and secondary school expenditures were developed rather arbitrarily and are shown in table 40. They are based on the assumption that the cost per teacher (including donated facilities and services) in nonpublic schools is the same as in public schools. The formula was as follows: y=xp (x=ratio of nonpublic to public school teachers, and p=public school expenditures). The ratio of nonpublic to public school teachers was slightly over 13 percent during the 1958 to 1968 decade and is expected to be slightly over 11 percent during the 1968 to 1978 decade. The numbers upon which these ratios were computed are shown in table 26.

Some previous Office of Education estimates were based on the assumption that per pupil costs in nonpublic were the same as in public schools. Since the average pupil-teacher ratio is higher in nonpublic than in public schools, the previous estimates were higher than those shown here. Both types of estimates are, in a sense, hypothetical. That is, one showed what it would cost to educate nonpublic elementary and secondary school children if they were enrolled in public schools and if the public school pupil-teacher ratio were maintained; and the other type, shown in tables 40 and 41, shows the cost if the pupil-teacher ratio were maintained at the nonpublic school level.

Institutions of higher education

Current expenditures (tables 46, 40)

Annual current expenditures of institutions of higher education (in 1968-69 dollars) increased from \$5.9 billion in 1958-59 to \$18.2 billion in 1968-69. They are expected to reach \$33.0 billion by 1978-79, or to nearly double during the projected 10-year period. The projected data are based largely upon expected increases in enrollment and upon the trend of increasing costs per student expressed in constant dollars. Thus, while enrollment is not expected to increase at as rapid a rate as during the past 10 years, this factor will be more than offset by increasing expenditures per student. The result is an expected or projected constant dollar increase of \$14.8 billion over the next 10 years compared to a constant dollar increase of \$12.3 billion over the past 10 years (see table 46). When expressed in terms of current expenditures per full-time-equivalent student, the data are as follows:

İtem	1958-59	1968-69	1978-79
Total current expenditures	\$2,236	\$3,049	\$3,729
Publicly controlled institutions	2,132	2,597	3,048
Nonpublicly controlled institutions	2,386	4,156	5,987

Current expenditures are divided into four functional components: student education, related activities, organized research, and auxiliary enterprises and student aid. "Student education" encompasses general administration, instruction and departmental research, extension and public services, libraries, and operation and maintenance. Expenditures for student education were projected by use of the trend of annual expenditures per full-time-equivalent student over the 10-year base period in conjunction with the projected enrollment of such students (see table 46). When expressed in terms of current expenditures per full-time-equivalent student, the data are as follows:

Item	1958-59	1968-69	1978-79
Current expenditures for student education	\$1,355 1.350	\$1,772 1,638	\$2,089 1,865
Nonpublicly controlled institutions	1,361	2,100	2,833



Current expenditures for "student education," related activities, and organized research are commonly known as current expenditures for educational and general purposes, and these expenditures per full-time-equivalent student are as follows:

ltem	1958-69	1968-69	1978-79
Expenditures for educational and general purposes	\$1,887	\$2,490	\$2,947
Publicly controlled institutions , ,	1,841	2,172	2,457
Nonpublicly controlled institutions	1,954	3,269	4,575

The institutions of higher education engage in organized research and related activities and auxiliary enterprises in widely varying degrees. Thus, only the "student education" component expressed as expenditure per full-time-equivalent student can be considered a norm for all institutions. Per student data for the United States for total current expenditures and for education and general expenditures are presented as general interest items and not as institutional norms.

Related activities, auxiliary enterprises, and student aid expenditures were projected on the basis of their percentage relationship to student education during the base period. These functions are obviously closely related to trends in enrollment, but allowance had to be made for the change during the base period in their percentage relationship to student education. The base period data indicate a trend toward more emphasis on these activities.

		Percent	
items	1968-59	1958-69	1978-79
Related activities:			
Publicly controlled institutions	9.90	10.75	11.94
Nonpublicly controlled institutions	8.76	9.68	10.54
Auxiliary enterprises:			
Publicly controlled institutions	26.49	26.45	27.80
Nonpublicly controlled institutions	32.78	33.32	36.09
Student aid:			
Publicly controlled institutions	3. 07	5.21	6.44
Nonpublicly controlled institutions	8.14	11.75	14.88

The projection of expenditures for organized research, as a component of current expenditures, was done without regard to enrollment or to relationship with expenditures for student education. In view of the extremely variable nature of this component's relation to industry and education, we have projected on the basis of the constant dollar trend of expenditures for organized research during the base period. This projection may well be quite conservative, especially for the publicly controlled institutions, which undoubtantly have the potential to engage in organized research to a far greater degree than performance over the past 10 years would indicate (see table 46).

Capital outlay (tables 48, 40)

Annual capital outlay of institutions of higher education (in 1968-69 dollars) increased from \$1.9 billion during 1958-59 to an estimated \$4.4 billion in 1966-67 before falling back to \$3.1 billion during 1968-68. Capital outlay over the entire 10-year base period of 1959-60 to 1968-69 amounted to an estimated total of \$32.0 billion (in 1968-69 dollars) and is expected to reach a total of \$28.6 billion (in 1968-69 dollars) over the 10-year projected period of 1969-70 to 1978-79. The decline in annual projected capital outlay, from \$3.1 billion in



1968-69 to \$2.4 billion in 1978-79 can be attributed to declining numbers of additional students projected for these years.

Base period estimates of capital outlay were made on the basis of reported book value of plant at the beginning and end of each biennial reporting year and converted to 1968-69 dollars. An amount equal to 1 percent of the value of plant was added each year as a conservative estimate of replacement and rehabilitation. The capital outlay for the entire base period was equated to the additional numbers of students for the same period. For the projected 10-year period, projections of capital 6. Jay and additional numbers of students were equated.

The historical data showed clearly that capital outlay could not be related to increased enrollment on an annual basis. The shortest reasonably reliable period of time proved to be 5 years. However, an annual figure could be interpolated by utilizing a moving average of enrollment increases, although the result was considerably less reliable than that obtained for a 5-year total. We would emphasize, then, that the annual capital outlay shown in tables 40 and 48 be regarded as interpolations and that the 1968-69 constant dollar aspect of the projections be kept in mind.

Expenditures for interest (table 40)

Data on expenditures for interest by institutions of higher education are incomplete and cannot be shown as a separate item. The major portion of expenditures for interest is estimated to be included with the current expenditures shown in table 40.



Table 40.—Expenditures (1968-69 dollars) of regular educational institutions, by instructional level and institutional control:

United States, 1958-59 to 1978-79

[In billions of 1968-69 dollars]

Year and control	Total (all	(N	nentary and seconomous seconomous seconomous seconomous mated on the bas per teacher in p	expenditu is of expe	res are nditures	Inst	itutions of highe education ²	r
	levels)	Total	Current expenditures ³	Capital outlay ⁴	Interest ⁵	Total	Current .	Capital outlay
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
1958-59:							••	_
Total	\$28.5	\$20.7	\$16.0	\$4.1	\$0.6	\$7.8	\$5.9	\$1.9
Public	22.5	18.1	14.0	3.6	.5	4.4	3.3	1.1
Nonpublic	6.0	2.6	2.0	.5	.1	3.4	2.6	.8
1959-60:								
fotal	30.8	22.4	17.2	4.5	.7	8,4	6.5	1.9
Public	24.5	1 9. 8	15.2	4.0	.6	4.7	3.6	1.1
Nonpublic	6.3	2.6	2.0	.5	.1	3.7	2.9	.8
1960-61:								
Total	33.3	23.7	18.5	4.5	.7	9.6	7.2	2.4
Public	26.2	20.9	16.3	4.0	.6	5.3	4.0	1.3
Nonpublic	7.1	2.8	2.2	.5	.1	4.3	3.2	1.1
1961-62:								
Total	35.9	25.5	20.1	4.6	.8	10.4	8.0	2.4
Public	28.1	22. 3	17.6	4.0	.7	5.8	4.4	1.4
Nonpublic	7.8	3.2	2.5	.6	.1	4.6	3.6	1.0
1962-63:			·					
Total	39.1	26.8	21,8	4.1	.9	12.3	9.0	3.3
Public	30.4	23.4	19.0	3.6	.8	7.0	4.9	2.1
Nonpublic	8.7	3.4	2.8	.5	.1	5.3	4.1	1.2
1963-64:								
Total	42.0	28.9	23.4	4.6	.9	13.1	10.0	3.1
Public	32.6	25.2	20.4	4.0	.8	7.4	5.5	1.9
Norpublic	9.4	3.7	3.0	.6	.1	5.7	4.5	1.2
1964-65:								
Total	46.2	31.2	24.9	5.3	1.0	15.0	11.5	3.5
Public	35.7	27.3	21.8	4.6	.9	8.4	6.4	2.0
Nonpublic	10.5	3.9	3.1	.7	.1	6.6	5.1	1,5
1965-66: ⁸								
Total	51.0	33.7	27.6	5.1	1.0	17.3	13.4	3.9
Public	39.6	29.6	24.2	4.5	.9	10.0	7.5	2.5
Nonpublic	11.4	4.1	3.4	.6	.1	7.3	5.9	1.4
1966-67: ⁸								
Total	54.1	35.0	28.7	5.2	1.1	19.1	14.7	4.4
Public	42.3	30.9	25.3	4.6	1.0	11,4	8.5	2.9
Nonpublic	11.8	4.1	3.4	.6	.1	7.7	6.2	1.5



Table 40.—Expenditures (1968-69 dollars) of regular educational institutions, by instructional level and institutional control:

United States, 1958-59 to 1978-79—Continued

[In billions of 1968-69 dollers]

10tal expenditures outley Interest 10tal expenditures outley Interest outley outle		Year and control	(N	entary and secononpublic school mated on the bas per teacher in p	expenditu is of expe	res ere nditures	Inst	titutions of highe education ²	o r
Total \$57.5 \$37.4 \$31.2 \$5.1 \$1.1 \$20.1 \$16.3 Public 45.5 33.1 27.6 4.5 1.0 12.4 9.6 Nonpublic . 12.0 4.3 3.6 .6 .1 7.7 6.7 6.7 6.7 6.6 1 7.7 6.7 6.7 6.6 1 7.7 6.7 6.7 6.6 1 7.7 6.7 6.7 6.6 1 7.7 6.7 6.7 6.6 1 7.7 6.7 6.7 6.6 1 7.7 6.7 6.7 6.6 1 7.7 6.7 6.7 6.6 1 7.7 6.7 6.6 1 7.7 6.7 6.7 6.6 1 7.7 6.7 6.7 6.6 1 7.7 7.1 6.8 6.1 1 35.5 29.8 4.7 1.0 13.6 11.1 Nonpublic 12.0 4.3 3.6 .6 .1 7.7 7.1 6.9 6.4 3.6 6 1 7.7 7.1 6.9 6.4 3.6 6 1 7.9 7.5 7.1 6.9 6.4 3.7 6 1 7.9 7.5 7	levels		Total	Current expenditures 3		Inturest ⁵	Total		Capital outlay ⁷
Total \$57.5 \$37.4 \$31.2 \$5.1 \$1.1 \$20.1 \$16.3 Public 45.5 33.1 27.6 4.5 1.0 12.4 9.6 Nonpublic 12.0 4.3 3.6 .6 .1 7.7 6.7 1968-69:8 Total 61.1 39.8 33.4 5.3 1.1 21.3 18.2 Public 49.1 35.5 29.8 4.7 1.0 13.6 11.1 Nonpublic 12.0 4.3 3.6 .6 .1 7.7 7.1 PROJECTED** 1969-70: Total 63.4 41.5 35.0 5.3 1.2 21.9 19.1 Public 51.1 37.1 31.3 4.7 1.1 14.0 11.6 Nonpublic 12.3 4.4 3.7 .6 .1 7.9 7.5 1970-71: Total 65.9 42.7 36.3 5.2 1.2 23.2 20.4 Public 53.0 38.3 32.5 4.7 1.1 14.7 12.4 Nonpublic 12.9 4.4 3.8 .5 .1 8.5 8.0 1971-72: Total 67.7 43.1 36.2 5.6 1.3 24.6 21.9 Public 54.2 38.7 32.5 5.0 1.2 15.5 13.4 Nonpublic 13.5 4.4 3.7 .6 .1 9.1 8.5 1972-73: Total 67.7 43.1 38.2 5.6 1.3 24.6 21.9 Public 54.2 38.7 32.5 5.0 1.2 15.5 13.4 Nonpublic 13.5 4.4 3.7 .6 .1 9.1 8.5 1972-73: Total 71.6 45.1 38.2 5.6 1.3 26.5 23.4 Public 57.2 40.5 34.3 5.0 1.2 16.7 14.4 Nonpublic 14.4 4.6 3.9 .6 .1 9.8 9.0 1973-74: Total 74.5 46.3 39.2 5.7 1.4 28.2 25.0 Public 59.4 41.6 35.2 5.1 1.3 17.8 15.4 Nonpublic 15.1 4.7 4.0 .6 .1 10.4 9.6 1974-75: Total 77.3 47.5 40.1 5.8 1.6 29.8 26.6 Public 59.4 41.6 35.2 5.1 1.3 17.8 15.4 Nonpublic 15.1 4.7 4.0 .6 .1 10.4 9.6	(2)	(1)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Public		1967-68: ⁸							
Nonpublic 12.0 4.3 3.6 .6 .1 7.7 6.7	. \$57.9	Total	\$37 <i>.</i> 4	\$31.2	\$5.1	\$1.1	\$20.1	\$16.3	\$3.8
Total 61.1 39.8 33.4 5.3 1.1 21.3 18.2 Public 49.1 35.5 29.8 4.7 1.0 13.6 11.1 Nonpublic 12.0 4.3 3.6 .6 .1 7.7 7.1	. 45.	Public	33.1	27.6	4.5	1.0	12.4	9.6	2.8
Total 61.1 39.8 33.4 5.3 1.1 21.3 18.2 Public 49.1 35.5 29.8 4.7 1.0 13.6 11.1 Nonpublic 12.0 4.3 3.6 .6 .1 7.7 7.1 PROJECTED® 1969-70: Total 63.4 41.5 35.0 5.3 1.2 21.9 19.1 Public 51.1 37.1 31.3 4.7 1.1 14.0 11.6 Nonpublic 12.3 4.4 3.7 .6 .1 7.9 7.5 1970-71: Total 65.9 42.7 36.3 5.2 1.2 23.2 20.4 Public 53.0 38.3 32.5 4.7 1.1 14.7 12.4 Nonpublic 12.9 4.4 3.8 .5 .1 8.5 8.0 1971-72: Total 67.7 43.1 36.2 5.6 1.3 24.6 21.9 Public 54.2 38.7 32.5 5.0 1.2 15.5 13.4 Nonpublic 13.5 4.4 3.7 .6 .1 9.1 8.5 1972-73: Total 71.6 45.1 38.2 5.6 1.3 24.6 21.9 Public 57.2 40.5 34.3 5.0 1.2 15.5 13.4 Nonpublic 13.5 4.4 3.7 .6 .1 9.1 8.5 1972-73: Total 71.6 45.1 38.2 5.6 1.3 26.5 23.4 Public 57.2 40.5 34.3 5.0 1.2 16.7 14.4 Nonpublic 14.4 4.6 3.9 .6 .1 9.8 9.0 1973-74: Total 74.5 46.3 39.2 5.7 1.4 28.2 25.0 Public 59.4 41.6 35.2 5.1 1.3 17.8 15.4 Nonpublic 15.1 4.7 4.0 .6 10.4 9.6 1974-75: Total 74.5 46.3 39.2 5.7 1.4 28.2 25.0 Public 59.4 41.6 35.2 5.1 1.3 17.8 15.4 Nonpublic 15.1 4.7 4.0 .6 10.4 9.6 1974-75: Total 77.3 47.5 40.1 5.8 1.6 29.8 26.6 Public 57.3 47.5 40.1 5.8 1.6 29.8 26.6 Public 61.5 42.6 36.0 5.2 1.4 18.9 16.5 Nonpublic 15.8 4.9 4.1 .6 .2 10.9 10.1	. 12.0	Nonpublic	4.3	3.6	.6	.1	7.7	6.7	1.0
Total 61.1 39.8 33.4 5.3 1.1 21.3 18.2 Public 49.1 35.5 29.8 4.7 1.0 13.6 11.1 Nonpublic 12.0 4.3 3.6 .6 .1 7.7 7.1 PROJECTED® 1969-70: Total 63.4 41.5 35.0 5.3 1.2 21.9 19.1 Public 51.1 37.1 31.3 4.7 1.1 14.0 11.6 Nonpublic 12.3 4.4 3.7 .6 .1 7.9 7.5 1970-71: Total 65.9 42.7 36.3 5.2 1.2 23.2 20.4 Public 53.0 38.3 32.5 4.7 1.1 14.7 12.4 Nonpublic 12.9 4.4 3.8 .5 .1 8.5 8.0 1971-72: Total 67.7 43.1 36.2 5.6 1.3 24.6 21.9 Public 54.2 38.7 32.5 5.0 1.2 15.5 13.4 Nonpublic 13.5 4.4 3.7 .6 .1 9.1 8.5 1972-73: Total 71.6 45.1 38.2 5.6 1.3 24.6 21.9 Public 57.2 40.5 34.3 5.0 1.2 15.5 13.4 Nonpublic 13.5 4.4 3.7 .6 .1 9.1 8.5 1972-73: Total 71.6 45.1 38.2 5.6 1.3 26.5 23.4 Public 57.2 40.5 34.3 5.0 1.2 16.7 14.4 Nonpublic 14.4 4.6 3.9 .6 .1 9.8 9.0 1973-74: Total 74.5 46.3 39.2 5.7 1.4 28.2 25.0 Public 59.4 41.6 35.2 5.1 1.3 17.8 15.4 Nonpublic 15.1 4.7 4.0 .6 10.4 9.6 1974-75: Total 74.5 46.3 39.2 5.7 1.4 28.2 25.0 Public 59.4 41.6 35.2 5.1 1.3 17.8 15.4 Nonpublic 15.1 4.7 4.0 .6 10.4 9.6 1974-75: Total 77.3 47.5 40.1 5.8 1.6 29.8 26.6 Public 57.3 47.5 40.1 5.8 1.6 29.8 26.6 Public 61.5 42.6 36.0 5.2 1.4 18.9 16.5 Nonpublic 15.8 4.9 4.1 .6 .2 10.9 10.1		1968-69: ⁸							
Public 49.1 35.5 29.8 4.7 1.0 13.6 11.1 PROJECTED ⁸ PROJECTED ⁸ 1969-70: Total 63.4 41.5 35.0 5.3 1.2 21.9 19.1 Public 51.1 37.1 31.3 4.7 1.1 14.0 11.6 Nonpublic 12.3 4.4 3.7 .6 .1 7.9 7.5 1970-71: Total 65.9 42.7 36.3 5.2 1.2 23.2 20.4 Public 53.0 38.3 32.5 4.7 1.1 14.7 12.4 Nonpublic 12.9 4.4 3.8 .5 .1 8.5 8.0 1971-72: Total 67.7 43.1 36.2 5.6 1.3 24.6 21.9 Public 54.2 38.7 32.5 5.0 1.2 15.5 13.4 1972-73: Total <	. 61.		39.8	33.4	5.3	1.1	21.3	18.2	3.1
1969-70: Total 63.4	. 49.	Public	35.5	29.8	4.7	1.0			2.5
1969-70: Total	. 12.0	Nonpublic	4.3						.6
Total 63.4 41.5 35.0 5.3 1.2 21.9 19.1 Public 51.1 37.1 31.3 4.7 1.1 14.0 11.6 Nonpublic . 12.3 4.4 3.7 .6 .1 7.9 7.5 1970-71: Total 65.9 42.7 36.3 5.2 1.2 23.2 20.4 Public 53.0 38.3 32.5 4.7 1.1 14.7 12.4 Nonpublic . 12.9 4.4 3.8 .5 .1 8.5 8.0 1971-72: Total 67.7 43.1 36.2 5.6 1.3 24.6 21.9 Public 54.2 38.7 32.5 5.0 1.2 15.5 13.4 Nonpublic . 13.5 4.4 3.7 .6 .1 9.1 8.5 1972-73: Total 71.6 45.1 38.2 5.6 1.3 26.5 23.4 Public 57.2 40.5 34.3 5.0 1.2 16.7 14.4 Nonpublic . 14.4 4.6 3.9 .6 .1 9.8 9.0 1973-74: Total 74.5 46.3 39.2 5.7 1.4 28.2 25.0 Public 59.4 41.6 35.2 5.1 1.3 17.8 15.4 Nonpublic . 15.1 4.7 4.0 .6 .1 10.4 9.6 1974-75: Total 77.3 47.5 40.1 5.8 1.6 29.8 26.6 Public 57.3 47.5 40.1 5.8 1.6 29.8 26.6 Public 61.5 42.6 36.0 5.2 1.4 18.9 16.5 Nonpublic 15.8 4.9 4.1 .6 .2 10.9 10.1	<u> </u>			PROJE	CTED8				
Total 63.4 41.5 35.0 5.3 1.2 21.9 19.1 Public 51.1 37.1 31.3 4.7 1.1 14.0 11.6 Nonpublic . 12.3 4.4 3.7 .6 .1 7.9 7.5 1970-71: Total 65.9 42.7 36.3 5.2 1.2 23.2 20.4 Public 53.0 38.3 32.5 4.7 1.1 14.7 12.4 Nonpublic . 12.9 4.4 3.8 .5 .1 8.5 8.0 1971-72: Total 67.7 43.1 36.2 5.6 1.3 24.6 21.9 Public 54.2 38.7 32.5 5.0 1.2 15.5 13.4 Nonpublic . 13.5 4.4 3.7 .6 .1 9.1 8.5 1972-73: Total 71.6 45.1 38.2 5.6 1.3 26.5 23.4 Public 57.2 40.5 34.3 5.0 1.2 16.7 14.4 Nonpublic . 14.4 4.6 3.9 .6 .1 9.8 9.0 1973-74: Total 74.5 46.3 39.2 5.7 1.4 28.2 25.0 Public 59.4 41.6 35.2 5.1 1.3 17.8 15.4 Nonpublic . 15.1 4.7 4.0 .6 .1 10.4 9.6 1974-75: Total 77.3 47.5 40.1 5.8 1.6 29.8 26.6 Public 57.3 47.5 40.1 5.8 1.6 29.8 26.6 Public 61.5 42.6 36.0 5.2 1.4 18.9 16.5 Nonpublic 15.8 4.9 4.1 .6 .2 10.9 10.1	_	1969-70:							
Public	. 634		41.5	35.0	5.3	1.2	21.9	19.1	2.8
Nonpublic . 12.3 4.4 3.7 .6 .1 7.9 7.5 1970-71: Total									2.4
Total									.4
Total		1970-71:							
Public 53.0 38.3 32.5 4.7 1.1 14.7 12.4 Nonpublic 12.9 4.4 3.8 .5 .1 8.5 8.0 1971-72: Total 67.7 43.1 36.2 5.6 1.3 24.6 21.9 Public 54.2 38.7 32.5 5.0 1.2 15.5 13.4 Nonpublic 13.5 4.4 3.7 .6 .1 9.1 8.5 1972-73: Total 71.6 45.1 38.2 5.6 1.3 26.5 23.4 Public 57.2 40.5 34.3 5.0 1.2 16.7 14.4 Nonpublic 14.4 4.6 3.9 .6 .1 9.8 9.0 1973-74: Total 74.5 46.3 39.2 5.7 1.4 28.2 25.0 Public 59.4 41.6 35.2 5.1 1.3 17.8 15.4 Nonpublic 15.1 4.7 4.0 .6 .1 <t< td=""><td>. 65.9</td><td></td><td>42.7</td><td>36.3</td><td>5.2</td><td>1.2</td><td>23.2</td><td>20.4</td><td>2.8</td></t<>	. 65.9		42.7	36.3	5.2	1.2	23.2	20.4	2.8
Nonpublic . 12.9 4.4 3.8 .5 .1 8.5 8.0 1971-72: Total									2.3
Total			4.4	3.8					.5
Total		1971-72:							
Public 54.2 38.7 32.5 5.0 1.2 15.5 13.4 Nonpublic 13.5 4.4 3.7 .6 .1 9.1 8.5 1972-73: Total 71.6 45.1 38.2 5.6 1.3 26.5 23.4 Public 57.2 40.5 34.3 5.0 1.2 16.7 14.4 Nonpublic 14.4 4.6 3.9 .6 .1 9.8 9.0 1973-74: Total 74.5 46.3 39.2 5.7 1.4 28.2 25.0 Public 59.4 41.6 35.2 5.1 1.3 17.8 15.4 Nonpublic 15.1 4.7 4.0 .6 .1 10.4 9.6 1974-75: Total 77.3 47.5 40.1 5.8 1.6 29.8 26.6 Public	. 67.		43.1	36.2	5.6	1.3	24.6	21.9	2.7
Nonpublic 13.5 4.4 3.7 .6 .1 9.1 8.5 1972-73: Total 71.6 45.1 38.2 5.6 1.3 26.5 23.4 Public 57.2 40.5 34.3 5.0 1.2 16.7 14.4 Nonpublic 14.4 4.6 3.9 .6 .1 9.8 9.0 1973-74: Total 74.5 46.3 39.2 5.7 1.4 28.2 25.0 Public 59.4 41.6 35.2 5.1 1.3 17.8 15.4 Nonpublic 15.1 4.7 4.0 .6 .1 10.4 9.6 1974-75: Total 77.3 47.5 40.1 5.8 1.6 29.8 26.6 Public 61.5 42.6 36.0 5.2 1.4 18.9 16.5 Nonpublic 15.8 4.9 4.1 .6 .2 10.9 10.5		-							2.1
Total			4.4						.6
Total		1972-73:							
Public	. 71.6		45.1	38.2	5.6	1.3	26.5	23.4	3.1
Nonpublic . 14.4 4.6 3.9 .6 .1 9.8 9.0 1973-74: Total 74.5 46.3 39.2 5.7 1.4 28.2 25.0 Public 59.4 41.6 35.2 5.1 1.3 17.8 15.4 Nonpublic . 15.1 4.7 4.0 .6 .1 10.4 9.6 1974-75: Total 77.3 47.5 40.1 5.8 1.6 29.8 26.6 Public 61.5 42.6 36.0 5.2 1.4 18.9 16.5 Nonpublic . 15.8 4.9 4.1 .6 .2 10.9 10.1									2.3
Total 74.5			4.6						.8
Total 74.5		1973-74:							
Public 59.4 41.6 35.2 5.1 1.3 17.8 15.4 Nonpublic 15.1 4.7 4.0 .6 .1 10.4 9.6 1974-75: Total 77.3 47.5 40.1 5.8 1.6 29.8 26.6 Public 61.5 42.6 36.0 5.2 1.4 18.9 16.5 Nonpublic 15.8 4.9 4.1 .6 .2 10.9 10.5	. 74.		46.3	39.2	5.7	1.4	28.2	25.0	3,2
Nonpublic . 15.1 4.7 4.0 .6 .1 10.4 9.6 1974-75: Total									2.4
Total			-						.8
Total		1974-75:							
Public 61.5 42.6 36.0 5.2 1.4 18.9 16.5 Nonpublic . 15.8 4.9 4.1 .6 .2 10.9 10.5	. 77		47.5	40.1	5.2	1.6	20 2	26.6	3.2
Nonpublic 15.8 4.9 4.1 .6 .2 10.9 10.?									2.4
1975-76									.8
		1975-76:							
Total 79.9 48.6 41.1 5.9 1.6 31.3 28.3	. 79.6		48.6	41.1	5.9	1.6	31.3	28.3	3.0
Public 63.5 43.6 36.9 5.3 1.4 19.9 17.6		-							2.3
Nonpublic 16.4 5.0 4.2 .6 .2 11.4 10.7									.7



Table 40.—Expenditures (1968-69 dollars) of regular educational institutions, by instructional level and institutional control: United States, 1958-59 to 1978-79—Continued

[In billions of 1968-69 dollars]

Year and control	Totel (all	(N	nentary and secon onpublic school mated on the bas per teacher in p	expenditu is of exper	res are nditures	Inst	titutions of highe education ²	r
	levels)	Total	Current expenditures ³	Capital outlay	InterestS	Total	Current expenditures 6	Capital outlay ⁷
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
1976-77:								
Total	\$82.4	\$49.7	\$42.1	\$5.9	\$1.7	\$32.7	\$29.9	\$2.8
Public	65.5	44.6	37.8	5.3	1.5	20.9	18.7	2.2
Nonpublic	16.9	5.1	4.3	.6	.2	11.8	11.2	.6
1977-78:								
Total	84.7	50.7	43.1	5.9	1.7	34.0	31.4	2.6
Public	67.3	45.5	38.7	5.3	1.5	21.8	19.7	2.1
Nonpublic	17.4	5.2	4.4	.6	.2	12.2	11.7	.5
1978-79:								
Total	87.4	52.0	44.3	5.9	1.8	35.4	33.0	2.4
Public	69.5	46.7	39.8	5.3	1.6	22.8	20.8	2.0
Nonpublic	17.9	5.3	4.5	.6	.2	12.6	12.2	.4

Excludes expenditures for residential schools for exceptional children, subcollegiate departments of institutions of higher education, Federal schools for Indians, and schools on Federal Installations. See text table on expenditures by source of funds for date on these schools. All nonpublic elementary and secondary school expenditures shown here are estimated on the basis of expanditures per teacher in public elementary and secondary schools.

Includes expenditures for subcollegiate departments of institutions of higher education, estimated at \$82 million in 1968-69. Includes expenditures for interest from current funds and excludes interest paid from plant funds. (An estimated \$165 million was expended for total interest in 1968-69.)

3 Includes current expenditures of public elementary and secondary school systems for community services, summer schools, community colleges, and adult education. Interest is included in the estimated current expenditures of nonpublic schools.

⁴Includes capital outlay of State and Iceal school building authorities.

Sinterest for nonpublic schools is based on interest for public schools.

Includes expenditures for interest from current funds. Excludes expenditures from current funds for capital outlay.

⁷The estimated annual capital outlay data shown here include estimated expenditures for replacement and rahabilitation.

Includes effect of Elementary and Secondary Education Act of 1965.

NOTE: Data are for 50 States and the District of Columbia.

SOURCES: Date are a summary of tables 42 through 48, each of which indicates source of date.



Table 41.—Expenditures (current dollars) of regular educational institutions, by instructional level and institutional control:

United States, 1958-59 to 1970-71

[In billions of current dollars]

Year and control	Total (all	(N	nentary and secon onpublic school mated on the bas per teacher in p	expenditu is of expe	resiane nditures	Inst	titutions of highe education ²	r
	levels)	Total	Current expenditures 3	Capital outlay 4	Interest ⁵	Total	Current expenditures 6	Capitel outlay ⁷
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
1958-59:								_
Total	\$22.4	\$16.2	\$12.9	\$2.8	\$0.5	\$6.2	\$4.9	\$1.3
Public	17.8	14.3	11.4	2.5	.4	3.5	2.8	.7
Nonpublic	4.6	1.9	1.5	.3	.1	2.7	2.1	.6
1959-60:								
Total	24.6	17.9	14.1	3.2	.6	6.7	5.4	1.3
Public	19.6	15.8	12.5	2.8	.5	3.8	3.0	.8
Nonpublic	5.0	2.1	1.6	.4	.1	2.9	2.4	.5
1960-61:								
Tota!	27.0	19.3	15.4	3.3	.6	7.7	6.0	1.7
Public	21.2	17.0	13.6	2.9	.5	4.2	3.3	.9
Nonpublic	5.8	2.3	1.8	.4	.1	3.5	2.7	.8
1961-62:								
Total	29.6	21.1	17.0	3.4	.7	8.5	6.8	1.7
Public	23.2	18.0	14.9	3.0	.6	4.7	3.7	1.0
Nonpublic	6.4	2.6	2.1	.4	.1	3.8	3.1	.7
1962-63:								
Total	32.5	22.3	18.5	3.1	.7	10.2	7.7	2.5
Public	25.3	19.5	16.2	2.7	.6	5.8	4.2	1.6
Nonpublic	7.2	2.8	2.3	.4	.1	4.4	3.5	.9
1963-64:								
Total	35.8	24.5	20.2	3.5	.8	11.3	8.8	2.5
Public	27.8	21.4	17.6	3.1	.7	6.4	4.9	1.5
Nonpublic	8.0	3.1	2.6	.4	.1	4.9	3.9	1.0
1964-65:								
Total	39.9	27.0	21.8	4.2	.9	12.9	10.1	2.8
Public	30.8	23.6	19.1	3.7	.8	7.2	5.6	1.6
Nonpublic	9.1	3.4	2.7	.5	.1	5.7	4.5	1.2
1965-66 ⁸								
Total	45.1	29.9	24.7	4.3	.9	15.2	11.9	3.3
Public	35.1	26.3	21.7	3.8	.8	8.8	6.7	2.1
Nonpublic	10.0	3.6	3.0	.5	.1	6.4	5.2	1.2
1966-67: ⁸								
Total	49.5	32.0	26.5	4.5	1.0	17.5	13.6	3.9
Public	38.7	28. 3	23.4	4.0	.9	10.4	7.9	2.5
Nonpublic	10.8	3.7	3.1	.5	.1	7.1	5.7	1.4

Table 41.—Expenditures (current dollars) of regular educational institutions, by instructional level and institutional control:

United States, 1958-59 to 1970-71—Continued

[In billions of current dollars]

Year and control	Total	(No	entary and secon onpublic school nated on the bas per teacher in p	expenditur is of exper	res are nditures	Inst	itutions of highe education ²	r
	levels)	Total	Current expenditures ³	Capital outlay	Interest ⁵	Total	Current expenditures ⁶	Capital outlay ⁷
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
1967-68: ⁸					<u> </u>		_	
Total	\$54.6	\$35.5	\$29.7	\$4.7	\$1.1	\$19.1	\$15.6	\$3.5
Public	43.3	31.5	26.3	4.2	1.0	11.8	9.2	2.6
Nonpublic	11.3	4.0	3.4	.5	.1	7.3	6.4	.9
1968-69: ⁸								
Total	61.1	39,8	33.A	5.3	1.1	21.3	18.2	3.1
Public	49.1	35.5	29.8	4.7	1.0	13.6	11.1	2.5
Nonpublic	12.0	4.3	3.6	.6	.1	7.7	7.1 	.6
			PROJ	ECTED ⁸				
1969-70:		_			_			
Total	65.5	42.8	36.1	5.5	1.2	22.7	19.7	3.0
Public	52.9	38.3	32.3	4.9	1.1	14.6	12.0	2.6
Nonpublic	12.6	4.5	3,8	.6	.1	8.1	7.7	.4
1970-71:			,					
Total	70.0	45.4	38.4	5.7	1.3	24.6	21.5	3.1
Public	56.4	40.7	34.4	5.1	1.2	15.7	13.1	2.6
Nonpublic	13.6	4.7	4.0	.6	.1	8.9	8.4	.5

Excludes expenditures for residential schools for exceptional children, subcollegiate departments of institutions of higher education, Federal schools for Indians, and schools on Federal installations. See text table on expenditures by source of funds for data on these schools. All nonpublic elementary and secondary school expenditures shown here are estimated on the basis of expenditures per teacher in public elementary and secondary school.

the estimated current expenditures of nonpublic schools.

4 Includes capital outlay of State and local school building authorities.

5 Interest for nonpublic schools is based on interest for public schools.

6 Includes expenditures for interest from current funds. Excludes expenditures from current funds for capital outlay.

⁷The estimated annual capital outlay data shown here include estimated expenditures for replacement end rehabilitation.

⁸Includes affect of Elementary and Secondary Education Act of 1965.

NOTE: Data are for 50 States and the District of Columbia.

SOURCES: Data are a summary of tables 42 through 48, each of which indicates source of data.

Includes expenditures for subcollegiate departments of institutions of higher education, estimated at \$82 million in 1968-69. Includes expenditures for interest from current funds and excludes interest paid from plant funds. (An estimated \$165 million was expended for total interest in 1968-69.)

³ Includes current expenditures of public elementary and secondary school systems for community services, summer schools, community colleges, and adult education. Interest is included in

Table 42.—Current expenditures of public school systems:
United States, 1958-59 to 1978-79

	A		All programs ²				
Year	Average daily attendance (in	Per pupit in average dally attendance		Total (in billions)		Total (in billions)	
	thousands)	Current dollars	1968-69 dollars	Current dollars	1968-69 dollars	Current dollars	1968-69 dollars
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1958-59 ³	31,184	\$357.71	\$440	\$11.2	\$13.8	\$11.4	\$14.0
1959-60	32,477	375.14	455	12.2	14.8	12.5	15.2
1960-61 ³	33,524	396.50	475	13.3	15.9	13.6	16.3
1961-62	34,682	418.50	496	14.7	17.4	14.9	17.6
1962-63 ³	35,882	439.00	514	15.8	18.5	16.2	19.0
1963-64	37,405	460.24	531	17.2	19.9	17.6	20.4
1964-65 ⁴	38,600	484.00	552	18.6	21.2	19.1	21.8
1965-66	39,154	537.35	600	21.0	23.5	21.7	24.2
1966-67 ⁴	40,000	569.00	616	22.6	24.5	23.4	25.3
1967-68 ⁴	40,700	623.00	653	25.4	26.6	26.3	27.6
1968-69 ⁴	41,700	696.00	696	28.6	28.6	29.8	29.8
A. INCLUDES THE	EFFECT OF T	HE ELEMEN	ITARY AND	SECONDA	RY EDUCA	TION ACT	OF 1965
		_	ACTUAL				
1965-66	39,154	537.35	600	21.0	23.5	21.7	
1966-67 ⁴	39,154 40,000	537.35 569.00	600 616	21.0 22.6	23.5 24.5	21.7 23.4	
1966-67 ⁴ 1967-68 ⁴	•						25.3
1966-67 ⁴ 1967-68 ⁴	40,000	569.00	616	22.6	24.5	23.4	25.3 27.6
1966-67 ⁴ 1967-68 ⁴ 1968-69 ⁴	40,000 40,700 41,700	569.00 623.00 696.00	616 653 696 ROJECTED ⁵	22.6 25.4 28.6	24.5 26.6 28.6	23.4 26.3 29.8	25.3 27.6
1966-67 ⁴	40,000 40,700 41,700 assumption tha	569.00 623.00 696.00 PF	616 653 696 ROJECTED ⁵	22.6 25.4 28.6 pupil will b	24.5 26.6 28.6 • \$70 higher	23.4 26.3 29.8 than trend)	25.3 27.6 29.8
1966-67 ⁴ 1967-68 ⁴ 1968-69 ⁴ (Based on	40,000 40,700 41,700 assumption tha 42,300	569.00 623.00 696.00 PF t current exp 737.00	616 653 696 ROJECTED ⁵ enditure per	22.6 25.4 28.6 pupil will b	24.5 26.6 28.6 9 \$70 higher	23.4 26.3 29.8 than trend)	25.3 27.6 29.8 31.3
1966-67 ⁴ 1967-68 ⁴ 1968-69 ⁴ (Based on 1969-70	40,000 40,700 41,700 assumption tha 42,300 42,700	569.00 623.00 696.00 PF	616 653 696 ROJECTED ⁵ enditure per 716 735	22.6 25.4 28.6 pupil will b	24.5 26.6 28.6 8 \$70 higher 30.3 31.4	23.4 26.3 29.8 than trend)	25.3 27.6 29.8 31.3 32.5
1966-67 ⁴ 1967-68 ⁴ 1968-69 ⁴ (Based on 1969-70 1970-71	40,000 40,700 41,700 assumption tha 42,300 42,700 42,800	569.00 623.00 696.00 PF t current exp 737.00	616 653 696 ROJECTED ⁵ enditure per 716 735 753	22.6 25.4 28.6 pupil will b	24.5 26.6 28.6 28.6 30.3 31.4 32.2	23.4 26.3 29.8 than trend)	25.3 27.6 29.8 31.3 32.5 33.4
1966-67 ⁴ 1967-68 ⁴ 1968-69 ⁴ (Based on 1969-70 1970-71 1971-72	40,000 40,700 41,700 assumption tha 42,300 42,700 42,800 42,900	569.00 623.00 696.00 PF t current exp 737.00 778.00	616 653 696 ROJECTED ⁵ enditure per 716 735 753 772	22.6 25.4 28.6 pupil will b 31.2 33.2	24.5 26.6 28.6 28.6 30.3 31.4 32.2 33.1	23.4 26.3 29.8 than trend) 32.3 34.4	25.3 27.6 29.8 31.3 32.5 33.4 34.3
1966-67 ⁴ 1967-68 ⁴ 1968-69 ⁴ (Based on 1969-70 1970-71 1971-72 1972-73	40,000 40,700 41,700 assumption tha 42,300 42,700 42,800 42,900 42,900	569.00 623.00 696.00 PF t current exp 737.00 778.00	616 653 696 ROJECTED ⁵ enditure per 716 735 753	22.6 25.4 28.6 pupil will b 31.2 33.2	24.5 26.6 28.6 28.6 30.3 31.4 32.2	23.4 26.3 29.8 than trend) 32.3 34.4	25.3 27.6 29.8 31.3 32.5 33.4 34.3
1966-67 ⁴ 1967-68 ⁴ 1968-69 ⁴ 1969-70 1970-71 1971-72 1972-73 1973-74	40,000 40,700 41,700 assumption tha 42,300 42,700 42,800 42,900 42,900 43,000	569.00 623.00 696.00 PF t current exp 737.00 778.00	616 653 696 ROJECTED ⁵ enditure per 716 735 753 772 792 810	22.6 25.4 28.6 pupil will b 31.2 33.2	24.5 26.6 28.6 28.6 30.3 31.4 32.2 33.1 34.0 34.8	23.4 26.3 29.8 than trend) 32.3 34.4	25.3 27.6 29.8 31.3 32.5 33.4 34.3 35.2 36.0
1966-67 ⁴ 1967-68 ⁴ 1968-69 ⁴ 1969-70 1970-71 1971-72 1972-73 1973-74 1974-75	40,000 40,700 41,700 assumption tha 42,300 42,700 42,800 42,900 42,900 43,000 43,000	569.00 623.00 696.00 PF t current exp 737.00 778.00	616 653 696 ROJECTED ⁵ enditure per 716 735 753 772 792 810 828	22.6 25.4 28.6 pupil will b 31.2 33.2	24.5 26.6 28.6 28.6 30.3 31.4 32.2 33.1 34.0 34.8 35.6	23.4 26.3 29.8 than trend) 32.3 34.4	25.3 27.6 29.8 31.3 32.5 33.4 34.3 35.2 36.0 36.9
1966-67 ⁴ 1967-68 ⁴ 1968-69 ⁴ (Based on 1969-70	40,000 40,700 41,700 assumption tha 42,300 42,700 42,800 42,900 42,900 43,000 43,000 43,100	569.00 623.00 696.00 PF t current exp 737.00 778.00	616 653 696 ROJECTED ⁵ enditure per 716 735 753 772 792 810 828 847	22.6 25.4 28.6 pupil will be 31.2 33.2 	24.5 26.6 28.6 28.6 30.3 31.4 32.2 33.1 34.0 34.8 35.6 36.5	23.4 26.3 29.8 than trend) 32.3 34.4 	25.3 27.6 29.8 31.3 32.5 33.4 34.3 35.2 36.0 36.9 37.8
1966-67 ⁴ 1967-68 ⁴ 1968-69 ⁴ (Based on 1969-70	40,000 40,700 41,700 41,700 assumption tha 42,300 42,700 42,800 42,900 42,900 43,000 43,000 43,100 43,200	569.00 623.00 696.00 PF t current exp 737.00 778.00	616 653 696 ROJECTED ⁵ enditure per 716 735 753 772 792 810 828	22.6 25.4 28.6 pupil wili b 31.2 33.2 	24.5 26.6 28.6 28.6 30.3 31.4 32.2 33.1 34.0 34.8 35.6	23.4 26.3 29.8 than trend) 32.3 34.4 	25.3 27.6 29.8 31.3 32.5 33.4 34.3 35.2 36.0 36.9 37.8
1966-67 ⁴ 1967-68 ⁴ 1968-69 ⁴ (Based on 1969-70	40,000 40,700 41,700 assumption tha 42,300 42,700 42,800 42,900 42,900 43,000 43,000 43,100	569.00 623.00 696.00 PF t current exp 737.00 778.00	616 653 696 ROJECTED ⁵ enditure per 716 735 753 772 792 810 828 847	22.6 25.4 28.6 pupil wili b 31.2 33.2 	24.5 26.6 28.6 28.6 30.3 31.4 32.2 33.1 34.0 34.8 35.6 36.5	23.4 26.3 29.8 than trend) 32.3 34.4 	24.2 25.3 27.6 29.8 31.3 32.5 33.4 35.2 36.0 36.9 37.8 38.7 39.8
1966-67 ⁴ 1967-68 ⁴ 1968-69 ⁴ (Based on 1969-70	40,000 40,700 41,700 41,700 assumption tha 42,300 42,700 42,800 42,900 43,000 43,000 43,100 43,200 43,400	569.00 623.00 696.00 PF t current exp 737.00 778.00	616 653 696 ROJECTED ⁵ enditure per 716 735 753 772 792 810 828 847 866 885	22.6 25.4 28.6 pupil will b	24.5 26.6 28.6 30.3 31.4 32.2 33.1 34.0 34.8 35.6 36.5 37.4 38.4	23.4 26.3 29.8 than trend) 32.3 34.4 	25.3 27.6 29.8 31.3 32.5 33.4 34.3 35.2 36.0 36.9 37.8 39.8
1966-67 ⁴ 1967-68 ⁴ 1968-69 ⁴ (Based on 1969-70 1970-71 1971-72 1972-73 1973-74 1974-75 1976-77 1977-78	40,000 40,700 41,700 41,700 assumption tha 42,300 42,700 42,800 42,900 43,000 43,000 43,100 43,200 43,400	569.00 623.00 696.00 PF t current exp 737.00 778.00	616 653 696 ROJECTED ⁵ enditure per 716 735 753 772 792 810 828 847 866 885	22.6 25.4 28.6 pupil will b	24.5 26.6 28.6 30.3 31.4 32.2 33.1 34.0 34.8 35.6 36.5 37.4 38.4	23.4 26.3 29.8 than trend) 32.3 34.4 	25.3 27.6 29.8 31.3 32.5 33.4 34.3 35.2 36.0 36.9 37.8 39.8
1966-67 ⁴ 1967-68 ⁴ 1968-69 ⁴ (Based on 1969-70 1970-71 1971-72 1972-73 1973-74 1974-75 1976-77 1977-78 1978-79 B. EXCLUDES THE	40,000 40,700 41,700 41,700 assumption tha 42,300 42,700 42,800 42,900 43,000 43,000 43,100 43,200 43,400 EFFECT OF 1	569.00 623.00 696.00 PF t current exp 737.00 778.00	616 653 696 ROJECTED ⁵ enditure per 716 735 753 772 792 810 828 847 866 885	22.6 25.4 28.6 pupil will b	24.5 26.6 28.6 30.3 31.4 32.2 33.1 34.0 34.8 35.6 36.5 37.4 38.4	23.4 26.3 29.8 than trend) 32.3 34.4 	25.3 27.6 29.8 31.3 32.5 33.4 34.3 35.2 36.0 36.9 37.8 39.8
1966-67 ⁴ 1967-68 ⁴ 1968-69 ⁴ (Based on 1969-70	40,000 40,700 41,700 41,700 assumption tha 42,300 42,700 42,800 42,900 43,000 43,000 43,100 43,200 43,400	569.00 623.00 696.00 PF t current exp 737.00 778.00 	616 653 696 ROJECTED ⁵ enditure per 716 735 753 772 792 810 828 847 866 885	22.6 25.4 28.6 pupil will b 31.2 33.2 	24.5 26.6 28.6 30.3 31.4 32.2 33.1 34.0 34.8 35.6 36.5 37.4 38.4	23.4 26.3 29.8 than trend) 32.3 34.4 	25.3 27.6 29.8 31.3 32.5 33.4 34.3 35.2 36.0 36.9 37.8 39.8 OF 1965
1969-70 1970-71 1971-72 1971-73 1972-73 1973-74 1974-75 1975-76 1976-77 1977-78 1978-79	40,000 40,700 41,700 41,700 assumption tha 42,300 42,700 42,800 42,900 43,000 43,000 43,100 43,200 43,400 EFFECT OF 1	569.00 623.00 696.00 PF t current exp 737.00 778.00 	616 653 696 ROJECTED ⁵ enditure per 716 735 753 772 792 810 828 847 866 885	22.6 25.4 28.6 pupil will be 31.2 33.2 	24.5 26.6 28.6 28.6 30.3 31.4 32.2 33.1 34.0 34.8 35.6 36.5 37.4 38.4	23.4 26.3 29.8 than trend) 32.3 34.4 	25.3 27.6 29.8 31.3 32.5 33.4 34.3 35.2 36.0 36.9 37.8 39.8 OF 1965



Table 42.—Current expenditures of public school systems: United States, 1958-59 to 1978-79—Continued

	A		Allocated to	All programs ²			
Year	Average daily attendance (in	Per pupil in average daily attendance		Total (in billions)		Total (in bi∜lions)	
	thousands)	Current dollars	1968-69 dollars	Current dollars	1968-69 dollars	Current dollars	1968-69 dollars
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
(Based on	42,300	⁶ 665	646	⁶ 28.1	t expenditur 	⁶ 29.1	28.3
1970-71	42,700	⁶ 704	665	⁶ 30.1	28.4	⁶ 31.1	29.4
1971-72	42,800		683		29.2	• • •	30.3
1972-73	42,900	• • • • •	702	• • •	30.1	• • •	31.2
1973-74	42,900	• • • • •	721	• • •	30.9		32.0
1974-75	43,000		740	• • •	31.8		32.9
1975-76	43,000		758	• • •	32.6	• • •	33.7
1976-77	43,100		777		33.5		34.7
1977-78	43,200		796	• • •	34.4		35.6
1978-79	43,400		815		35.4		36.6

¹ Includes only the current expenditures for public day schools allocated to pupil costs, and excludes the other expenditures shown in footnote 2.

Includes current expenditures for summer schools, adult education, and community colleges operated by school districts, in addition to expenditures allocable to pupil costs.

Estimated on the basis of actual enrollment and interpolated expenditures per pupil.

Derived from estimates furnished by States.

The projections of current expenditures of public school systems including the effect of the Elementary and Secondary Education Act of 1965 are based on the essumptions that (1) grades K-12 of public schools (table 3) will remain constant at the level of 0.927, the average for the last 6 years, 1963-64 through 1968-69; (2) current expenditures allocated to costs per pupil in average daily attendance will follow the 1958-59 to 1964-65 trend; (3) the ratio of current expenditures for all programs to current expenditures allocated to pupil costs will remain constant at the 1967-68 level of 1.035; and (4) an increase in expenditures of \$70 per pupil will be added to the trend expenditures outlined above as a result of the Elementary and Secondary Education Act of 1965.

⁶Based on the assumption that the Consumer Price Index will follow the 1964-65 to 1968-69 trend through 1970-71.

⁷Estimated, using the 1958-59 to 1964-65 trend. ⁸The projections of current expenditures of public school systems excluding the effect of the Elementary and Secondary Education Act of 1965 are based on the first three assumptions outlined in footnote 5 above.

For methodological details see appendix A, table A-4, and discussion in text.

NOTE: Data are for 50 States and the District of Columbia for all years.

SOURCES: Data are based on statistics shown in U.S. Department of Health, Education, and Welfare, Office of Education publications: (1) "Statistics of State School Systems" circulars (1959-60 through 1965-66); and (2) "Statistics of Public Schools," fall 1964 through 1968. Current expenditures were converted to 1968-69 dollars on the basis of the Consumer Price Index prepared by the Bureau of Labor Statistics, U.S. Department of Labor. For method of converting, see appendix B, table B-12.

The expenditures shown in this table include current expenditures for administration for State boards of education, State departments of education, and intermediate administrative units. Therefore, they are higher than those that exclude such expenditures,

Table 43.—Current expenditures for salaries of instructional staff in regular public elementary and secondary day schools: United States, 1958-59 to 1978-79

		s	Salaries of instructional staff ²				
Year	Number of Instructional	Average annual satary		Total (in billions)			
	staff ¹ (in thousands)	Current	1968-69 dolla::s	Current dollars	1968-69 dollars		
(1)	(2)	(3)	(4)	(5)	(6)		
1958-59 ³	1,408	\$4,940	\$6,075	\$7.0	\$8.6		
1959-60	1,463	5,174	6,276	7.6	9.2		
1960-613	1,526	5,440	6,512	8.3	9.9		
1961-62	1,591	5,700	6,755	9.1	10.7		
1962-633	1,647	5,930	6,944	9.8	11.4		
1963-64	1,728	6,240	7,205	10.8	12.5		
1964-654	1,811	6,400	7,296	11.6	13.2		
1965-66	1,886	6,935	7,739	13.1	14.6		
1966-674	1,977	7,110	7,695	14.1	15.2		
1967-68 ⁴	2,055	7,630	7,992	15.7	16.4		
1968-69 ⁴	2,159	8,200	8,200	17.7	17.7		

A. INCLUDES EFFECT OF THE ELEMENTARY AND SECONDARY EDUCATION ACT OF 1965 ON NUMBER OF STAFF

			ACTUAL		
1965-66	1,886	6,935	7,739	13.1.	14.6
1966-674	1,977	7,110	7,695	14.1	15.2
1967-684	2,055	7,630	7,992	15.7	16.4
1968-69 ⁴	2,159	8,200	8,200	17.7	17.7
			ROJECTED	5	
1969-70	2,217	8,800	8,500	19.5	18.8
1970-71	2,249	9,300	8,800	20.9	19.8
1971-72	2,285		9,000		20.6
1972-73	2,279		9,300		21.2
1973-74	2,315		9,600		22.2
1974-75	2,332		9,900		23.1
1975-76	2,346		10,100		23.7
1976-77	2,363		10,400		24.6
1977-78	2,378		10,700		25.4
1978-79	2,396	• • • • • •	11,000		26.4

B. EXCLUDES EFFECT OF THE ELEMENTARY AND SECONDARY EDUCATION ACT OF 1965 ON NUMBER OF STAFF

	ESTIMATED ⁶						
1965-66	1,853	6,733	7,513	12.5	13.9		
1966-67	1,901	7,143	7,731	13.6	14.7		
1967-684	1,955	7,588	7,948	14.8	15.5		
1968-69	2,019	8,165	8,165	16.5	16.5		
		-	ROJECTED) ⁵			
1969-70	2,061	⁷ 8,631	8,383	17.8	17.3		
1970-71	2,093	⁷ 9,108	8,600	19.1	18.0		
1971-72	2,128		8,817		18.8		
1972-73	2,122		9.035		19.2		

See footnotes at end of table.



Table 43.—Current expenditures for salaries of instructional staff in regular public elementary and secondary day schools: United States, 1958-59 to 1978-79—Continued

	North and	Salaries of instructional staff ²						
Year	Number of instructional staff (in	Average annual salary		Total (in billions				
	thousands)	Current dollars	1968-69 dollars	Current dollars	1968-69 dollars (6)			
(1)	(2)	(3)	(4)	(5)				
1973-74	2,157		9,252		20.0			
1974-75	2,174		9,469		20.6			
1975-76	2,187		9,687		21.2			
1976-77	2,204		9,904		21.8			
1977-78	2,218		10,121		22.4			
1978-79	2,236		10,339	,	23.1			

Data on number of instructional staff were taken from table 30.

Elementary and Secondary Education Act of 1965, are based on the first two assumptions outlined in footnote 5 above.

For methodological details, see appendix A, table A-4.

Based on the assumption that the Consumer Price Index will follow the 1964-65 to 1968-69 trend through 1970-71.

NOTE: Data are for 50 States and the District of Columbia for all years,

SOURCES: Data are based on statistics shown in U.S. Department of Health, Education, and Welfare, Office of Education publications: (1) "Statistics of State School Systems, Biennial Survey of Education in the United States," chapter 2 (1957-58); "Statistics of State School Systems" circulars (1959-60 through 1965-66); and (3) "Statistics of Public Schools," fall 1964 through 1968.

Conversion to 1968-69 dollars was based on the Consumer Price Index prepared by the Bureau of Labor Statistics, U.S. Department of Labor. For method of converting see appendix B, table B-8.



The average annual salaries of instructional staff are about 3 percent higher than the salaries of classroom teachers.

Interpolated.

⁴ Estimates of salaries furnished by State education departments.

The projections of current expenditures for salaries of instructional staff in public elementary and secondary schools, including the effect of the Elementary and Secondary Education Act of 1965, are based on the following assumptions: (1) Average annual salaries will follow the 1958-59 to 1968-69 trend; (2) the ratio of instructional staff to classroom teachers in regular public schools v. If follow the 1958-64 trend (see tables 26 and 30); and (3) funds provided by the Elementary and Secondary Education Act of 1965 will increase the number of instructional staff over the number expected on the basis of trend alone by approximately 140,000 each year.

⁶ Estimated, using the 1958-59 to 1964-65 trend. The projections of current expenditures for salaries of instructional staff in public elementary and secondary schools, excluding the effect of the

Table 44.—Construction of public elementary and secondary school classrooms and capital outlay: United States, 1958-59 to 1978-79

[Capital outlay includes expenditures of public school building authorities]

		Fiscal		School ye	ear capital (outlay ¹	
Year	Rooms	year bond sales in	Cur	rent dolla	1968-69 dollars		
	completed	millions of current dollars	Percent of bond sales	Total in millions	Per room	Total in millions	Per room
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1958-59 ²	70,000	\$1,948	128	\$2,500	\$35,700	\$3,600	\$51,400
1959-60	69,400	2,198	128	2,823	40,700	4,000	57,600
1960-61 ³	72,157	2,357	123	2,900	40,200	4,000	55,400
1961-62	71,987	2,568	116	2,987	41,500	4,000	55,600
196∠-63 ⁴	65,300	2,274	119	2,700	41,300	3,600	55,100
1963-64	69,300	2,570	122	3,135	45,200	4,000	57,700
1959-60 to 1963-64	348,144	11,967	122	14,545	41,780	19,600	56,290
1964-65 ⁵	65,200	2,823	131	3,700	56,700	4,600	70,600
1965-66	72,600	2,883	130	3,755	51,700	4,500	62,000
1966-675	71,000	3,254	123	4,000	56,300	4,600	64,800
1967-68 ⁵	75,400	2,917	144	4,200	55,700	4,500	59,700
1968-69 ⁵	75,000	2,904	160	4,654	63,000	4,700	62,700
1964-65 to 1968-69	359,200	15,077	135	20,309	56,540	22,900	63,750
		PROJEC	TED ⁶				
1969-70	75,000	-		74,900	65,000	4,700	63,000
1970.71	75,000			⁷ 5,100	68,000	4,700	63,000
1971-72	74,000		. .			5,000	67,000
1972-73	74,000					5,000	67,000
1973-74	74,000				• • • • •	5,100	69,000
1969-70 to 1973-74	372,000			• • • • •	• • • • •	24,500	65,900
1974-75	74,000				.	5,200	70,000
1975-76	74,000		.			5,200	70,000
1976-77	74,000					5,200	70,000
1977-78	74,000					5,200	70,000
1978-79	74,000					5,200	70,000
1974-75 to 1978-79	370,000				· · · · · ·	26,000	70,000

In 1961-62, 2 percent of capital outlay was estimated to be for transportation equipment, 15 percent for other equipment, and 83 percent for land and buildings.

Capital outlay was estimated at 128 percent of bond sales, the average for 1957-58 and 1959-60.

Capital outlay was estimated at 122 percent of

bond sales, the average for 1959-60 and 1961-62.

Capital outlay was estimated at 119 percent of bond sales, the average for 1961-62 and 1963-64.

Capital outlay was estimated by State departments of education.

⁶ Projections of construction of public elementary and secondary school classrooms and of capital outlay are based on the assumptions that: (1) The total number of rooms constructed will decline slightly, projected on the basis of the 1957-58 to 1968-69 trend; and (2) the capital outlay per room will remain constant at \$70,000 per room toward the end of the period.

⁷Based on the assumption that the Construction Cost Index will follow the 1964-65 to 1968-69 trend through 1969-70.

For further methodological details, see appendix A, table A-4.

Footnotes continued on page 96.

NOTE: Data are for 50 States and the District of Columbia for all years.

SOURCES: Data are based on statistics shown in U.S. Department of Health, Education, and Welfare, Office of Education publications: (1) "Statistics of State School Systems, 1957-58"; (2) "Enrollment,

Teachers, and Schoolhousing," fall 1957 to fall 1963; (3) "Statistics of Public Schools," fall 1964 through 1968; (4) "8 and Sales for Public School Purposes," 1960-61 to 1967-68. Conversion to 1968-69 dollars was based on the American Appraisal Co. Construction Cost Index. For method of converting, see appendix 8, table 8-8.

Table 45.—Expenditures for interest by public elementary and secondary school systems:

United States, 1958-59 to 1978-79

[In. millions]

Year	Total Interest includion payments to schoolhou authorities or similar age			
	Current dollars	1968-6a dollars		
(1)	(2)	(3)		
1958-59 ¹	\$416	\$512		
1959-60	490	594		
1960-61 ¹	539	645		
1961-62	588	697		
1962-63 ¹	644	754		
1963-64	701	809		
1964-65 ²	761	868		
1965-66	792	884		
1966-67 ²	949	1,027		
1967-68 ²	950	995		
1968-69	1.015	1,015		
	PROJECT			
1969-70	⁴ 1,100	1,070		
1970-71	⁴ 1,200	1.130		
1971-72		1,190		
1972-73		1,240		
1973-74	• • • • • • • • • • • • • • •	1,300		
1974-75		1,360		
975-76		1,410		
1976-77		1,410		
1977-78		•		
978-79		1,530 1,580		

¹ Interpolated.

SOURCES: Data are based on statistics shown in U.S. Department of Health, Education, and Welfare, Office of Education publications: (1) "Statistics of State School Systems," 1959-60 to 1965-66; end (2) "Statistics of Public Schools," fall 1964 through fell 1968, Conversion to 1968-69 dollars was based on the Consumer Price Index prepared by the Sureau of Lebor Statistics, U.S. Department of Labor.

For method of converting, see appendix 8, table 8-8.



²Estimates furnished by State education departments.

³ Projections of expenditures for interest are based on the assumption that these expenditures will follow the 1958-59 to 1968-69 trend;

Based on the assumption that the Consumer Price fedax will follow the 1964-65 to 1968-69 trend through 1970-71.

For methodological details, see appendix A, table A-4.

NOTE: Data are for 50 States and the District of Columbia for all years.

Table 46.—Expenditures from current funds and total current expenditures (1968-69 dollars) by institutions of higher education: United States, 1958-59 to 1978-79

[in billions of 1968-69 dollars]

	E	enditures 1	or educatio	nal and	Expenditures for auxiliary	Total expendi-	Capital outlay	Total current
Year and control	Total	Student education 1	Organized research	Related activities ²	enterprises and student aid ³	tures from current funds	from current funds only	expendi tures ⁴
(1)	(2)	(3)	(4)	(6)	(6)	(7)	(8)	(9)
1958-59 ⁵			-					_
Total	\$5.0	\$3.6	\$1.1	\$0.3	\$1.2	\$6.2	\$0.3	\$5.9
Public	2.9	2.1	.6	.2	.6	3.5	.2	3.3
Nonpublic .	2.1	1.5	.5	.1	.6	2.7	.1	2.6
1959-60								
Total	5.4	3.9	1.2	.3	1.4	6.8	.3	6.5
Public	3.1	2.3	.6	.2	.7	3.8	.2	3.6
Nonpublic	2.3	1.6	.6	.1	., .7	3.0	.1	2.9
•	2.0	•,						
1960-61 ⁵			. =	_	. . .		_	
Total	6.1	4.2	1.5	.4	1.5	7.6	,4	7.2
Public	3.4	2.4	.8	.2	.8	4.2	.2	4.0
Nonpublic .	2.7	1.8	.7	.2	.7	3.4	.2	3.2
1961-62								
Total	6.8	4.6	1.7	.5	1.6	8.4	.4	8.0
Public	3.8	2.7	.8	.3	.8	4.6	.2	4.4
Nonpublic .	3.0	1.9	.9	.2	.8	3.8	.2	3.6
1962-63 ⁵								
Total	7.7	5.2	2.0	.5	1.8	9.5	.5	9.0
Public		3.0	1.0	,3	.9	5.2	.3	4.9
Nonpublic .		2.2	1.0	.2	.9	4.3	.2	4.1
1963-64								
Total	8.6	5.8	2.3	.5	1.9	10.5	.5	10.0
Public		3.4	1.1	.3	1.0	5.8	,3	5.5
Nonpublic			1.2	.2	9.	4.7	.2	4.5
_	0.0							
1964-65 ⁵				_		40.0	_	44 5
Total		6.5	2.5	.7	2.3	12.0	.5 .3	11.5
Pr∂dic			1.2 1.3	.4 .3	1.2 1.1	6.7 5.3	.3 .2	6.4 5.1
Nonpublic .	4.2	2.6	1.3	.3	1.1	5.3	,2	5.1
1965-66								
Total	_	7.6	2.7	.8	2.9	14.0	.6	13.4
Public		4.6	1.3	.5	1.5	7.9	,4	7.5
Nonpublic .	4.7	3.0	1.4	.3	1.4	6.1	.2	5.9
1966-67								
Total	12.3	8.7	2.7	.9	3.1	15.4	.7	14.7
Public			1.3	.6	1.7	9.0	.5	8,5
Nonpublic	5.0		1.4	.3	1.4	6.4	.2	6.2
1967-68 ⁶								
Total	13:4	9.6	29	.9	3.5	16.9	.6	16.3
Public			1.4	.6	1.9	10.0	.4	9.6
Nonpublic			1.5	.3	1.6	6.9	.2	6.7
· · · · · · · · · · · · · · · · · · ·		table.			• • • •			

Table 46.—Expenditures from current funds and total current expenditures (1968-69 dollars) by institutions of higher education: United States, 1958-59 to 1978-79—Continued

[In billions of 1968-69 dollars]

	E	xpenditures f	or educetion	nal and	Expenditures for auxiliary	Total expendi- tures from current funds	Capital cutlay	Total current
Year and control	Total	Student education ¹	Organized research	Related activities 2	enterprises and student aid ³		from current funds only	expendi- tures
(1)	(2)	(3)	(4)	(6)	(6)	(7)	(8)	(9)
1968-69 ⁶			•					
Total	\$14.8	\$10.5	\$3.2	\$1.1	\$3.9	\$18.7	\$0.5	\$18.2
Public	9.2	6.9	1.5	.8	2.3	11.5	.4	11.1
Nonpublic .	5.6	3.6	1.7	.3	1.6	7.2	.1	7.1
			F	ROJECTE	p ⁷			
1969-70	•							
Total	15.6	11.0	3.4	1.2	4.0	19.6	.5	39.1
Public	9.7	7.3	1.6	.8	2.3	12.0	.4	11.6
Nonpublic .	5.9	3.7	1.8	.4	1.7	7.6	.1	7.5
1970-71								
Total	16.6	11.6	3.7	1.3	4.3	20.9	.5	20.4
Public		7.7	1.7	.9	2.5	20. 9 12.8	.5 ,4	20.4 12.4
Nonpublic .	6.3	3.9	2.0	.4	2.3 1.8	8.1	.1	8.0
4074.70								
1971-72		40.4					_	
Total		12.4	3.9	1.3	4.7	22.3	.4	21.9
Public Nonpublic .		8.3 4.1	1.8 2.1	.9 .4	2.7 2.0	13.7 8.6	.3 .1	13.4 8.5
•					2.0	0.0		0.0
1972-73							_	
Total		13.4	4.1	1.4	5.0	23.9	.5	23.4
Public		9.0	1.9	1.0	2.9	14.8	.4	14.4
Nonpublic .	7.0	4.4	2.2	.4	2.1	9.1	.1	9.0
1973-74								
Total		14.3	4.3	1.6	5.3	25.5	.5	25.0
Public		9.6	2.0	1.1	3.1	15.8	.4	15.4
Nonpublic .	7.5	4.7	2.3	.5	2.2	9.7	.1	9.6
1974-75								
Total	21.3	15.1	4.5	1.7	5.8	27.1	,5	26.6
Public	13.5	10.2	2.1	1.2	3.4	16.9	.4	16.5
Nonpublic .	7.8	4.9	2.4	.5	2.4	10.2	.1	10.1
1975-76								
Total	22.7	16.1	4.8	1.8	6.1	28.8	.5	28.3
Public		10.9	2.2	1.3	3.6	18.0	.4	17.6
Nonpublic .	8.3	5.2	2.6	.5	2.5	10.8	.1	10.7
1976-77								
Total	23.9	16.9	5.0	2.0	6.5	30.4	.5	29.9
Public		11.5	2.3	1.4	3.9	30,4 19,1	.5 .4	29.9 18.7
Nonpublic .	8.7	5.4	2.3 2.7	.6	3. 9 2.6	11.3	.1	11.2
110public 1	5.,	J.7	٠,,	,0	2.U .	11.0		11.2

See footnotes at end of table.



Table 46.—Expenditures from current funds and total current expenditures (1968-69 dollars) by institutions of higher education: United States, 1958-59 to 1978-79—Continued

[In billions of 1968-69 dollars]

	E	cpenditures 1	for education of purposes	nal and	Expenditures for auxillery	Totel expendi- tures from	Capitel outlay from	Total current
Year and control	Total	Student education 1	Organized research	Related activities 2	enterprises and student aid ³	current funds	current funds only	expendi tures
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
1977-78								
Total	\$24.9	\$17.7	\$5.2	\$2.0	\$6.9	\$31.8	\$0.4	\$31.4
Public	15.9	12.1	2.4	1.4	4.1	20.0	.3	19.7
Nonpublic,	9.0	5.6	2.8	.6	2.8	11.8	.1	11.7
1978-79								
Total	26.1	18.5	5.5	2.1	7.3	33.4	.4	33.0
Public	16.7	12.7	2.5	1.5	4.4	21.1	.3	20.8
Nonpublic.	9.4	5.8	3.0	.6	2.9	12.3	.1	12.2

includes general administration, instruction and departmental research, extension and public services, libraries, and operation and maintenance of the physical plant.

² Includes expenditures for such items as laboratory schools, medical school hospitals, dental clinics, home economics cefeterias, agricultural college creameries, college-operated industrial plants connected with instruction programs but not actually integral parts of them, etc.

3 Auxiliery enterprises include student dormitories, dining halls, cefeteries, student unions, bookstores, feculty housing, athletic programs not pert of the instructional program, lectures, concerts,

Student aid consists of scholarships, fellowships, and prizes, and includes remission of fees. Current-fund expanditures less capital outlay from current funds.

⁵ interpolated.

6 Estimated.

The projection of expenditures from current funds is based on assumptions that: (1) Expenditure per student end the percent of college-age persons attending college, on which expenditures for student education depend, will continue to increase as they did during the years 1958-59 to 1968-69; (2) expenditures for organized research will follow the 1958-59 to 1958-69 trend; (3) the relationship to student education of expenditures for related ectivities, for auxiliary enterprises, and

for student eld will continue the 1958-59 to 1968-69 trend; end (4) the 1968-69 to 1978-79 expanditures from current funds for cepital outley will approximate 16 percent of total capital outley.

For further methodological details, see appendix A, table A-4.

NDTE: Data are for 50 States and the District of Columbie for all years.

SOURCES: Expenditure data from U.S. Depertment of Heelth, Education, end Welfere, Office of Education publications: (1) "Statistics of Higher Education, Bienniel Survey of Education in the United States, 1957-58," chapter 4; (2) "Financial Statistics of Higher Education," 1959-60; (3) "Higher Education Finances," 1961-62 and 1963-64; "Financial Statistics of Institutions of Higher Education, 'Current Funds Revenuet and Expenditures' end 'Property,' 1965-66 and 1966-67"; and (4) unpublished data in the Office of Education.

Conversion to 1968-69 dollars was based on the Consumer Price Index published by the Bureau of Lebor Statistics, U.S. Department of Lebor and (for capital outlay) on the American Appraisal Company Construction Cost Index. For method of converting the indexes, see appendix B, table B-B.



Table 47.—Expenditures from current funds and total current expenditures (current dollars)
- by institutions of higher education: United States, 1958-59 to 1970-71

[In billions of current dollars]

Year and control	E:	xpenditures (for educatio	nal and	Expenditures for auxiliary	Total expendi-	Capital outlay	Total current
r dar and control	Total	Student education ¹	Organized research	Related activities 2	enterprises and student aid ³	tures from current funds	from current funds only	expendi- tures 4
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
1958-59 ⁵						,		
Total	\$4.1	\$2.9	\$0.9	\$0.3	\$1.0	\$5.1	\$0.2	\$4.9
Public	2.4	1.7	.5	.2	.5	2.9	.1	2.8
Nonpublic .	1.7	1.2	.4	.1	.5	2.2	.1	2.1
1959-60								
Total	4.5	3.2	1.0	.3	1.1	5.6	.2	5.4
Public	2.6	1.9	.5	.2	.5	3.1	.1	3.0
Nonpublic .	1.9	1.3	.5	.1	.6	2.5	.1	2.4
1960-61 ⁵								
Total	5.1	3.6	1.2	.3	1.2	6.3	.3	6.0
Public , , , ,	2.9	2.1	,6	.2	.6	3.5	.2	3.3
Nonpublic .	2.2	1.5	.6	.1	.6	2.8	.1	2.7
1961-62								
Total	5.7	3.9	1.5	.3	1.4	7.1	.3	6.8
Public	3.2	2.3	.7	.2	.7	3.9	.3 .2	3.7
Nonpublic .	2.5	1.6	.8	.1	.7	3.2	.1	3.1
1962-63 ⁵								
Total	6.6	4.4	1.7	,5	4.6	0.0	-	
Public	3.7	2.6	.8	.3	1.6 .8	8.2 4.5	,5 ,3	7.7
Nonpublic ,	2.9	1.8	.0 .9	.3 .2	.8	4.5 3.7	.3 .2	4.2 3.5
1000.04								
1963-64	74	5 0	4.0	-	4.0			
Total	7.4	5.0	1.9	.ö	1.8	9.2	.4	8.8
Nonpublic .	4.2 3.2	3.0	.9	.3	.9	5.1	.2	4.9
Nonpublic ,	3.2	2.0	1.0	.2	.9	4.1	.2	3.9
1964-65 ⁵								
Total	8.5	5.7	2.2	.6	2.1	10.6	.5	10.1
Public	4.8	3.4	1.0	.4	1.1	5.9	.3	5.6
Nonpublic .	3.7	2.3	1.2	.2	1.0	4.7	.2	4.5
1965-66								
Total	9.9	6.8	2.5	.6	2.5	12.4	.5	11.9
Public	5.7	4.1	1.2	.4	1.3	7.0	.3	6.7
Nonpublic ,	4.2	2.7	1.3	.2	1.2	5.4	.2	5.2
1966-67								
Total	11.3	8.0	2.5	.8	2.9	14.2	.6	13.6
Public	6.7	5.0	1.2	.5	1.6	8.3	.4	7.9
Nonpublic .	4.6	3.0	1.3	.3	1.3	Ei.9	.2	5.7
1967-68 ⁶								
Total	12.9	9.1	2.9	.9	3.3	16.2	.6	15.6
Public	7.8	5.8	1.4	.6	1.8	9.6	,6 ,4	9.2
Nonpublic .	5.1	3.3	1.5	.3	1.5	6.6	, 4 ,2	6.4
		- 				0.0	14-	J.7

See footnotes at end of table.

Table 47.—Expenditures from current funds and total current expenditures (current dollars) by institutions of higher education: United States, 1956-59 to 1970-71—Continued

[In billions of current dollars]

W	E:	kpenditures (genera	for educatio al purposes	nal and	Expenditures for auxiliary	Total expendi-	Capital outlay	Total current
Year and control	Total	Student education 1	Organized research	Related activities 2	enterprises and student aid ³	tures from current funds	from current funds only	expendi- tures ⁴
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
1968-69 ⁶			-				-	
Total	\$14.8	\$10.5	\$3.2	\$1.1	\$3.9	\$18.7	\$0.5	\$18.2
Public	9.2	6.9	1.5	.8	2.3	11.5	.4	11.1
Nonpublic .	5.6	3.6	1.7	.3	1.6	7.2	.1	7.1
			P	ROJECTED	7	_		_
1969-70								
Total	16.0	11.3	3.5	1.2	4.2	20.2	.5	19.7
Public	10.0	7.5	1.7	.8	2.4	12.4	.4	12.0
Nonpublic .	6.0	3.8	1.8	.4	1.8	7.8	.1	7.7
1970-71								
Total	17.5	12.4	3.8	1.3	4.5	22.0	.5	21.5
Public	10.9	8.2	1.8	.9	2.6	13.5	.4	13.1
Nonpublic .	6.6	4.2	2.0	.4	1.9	8.5	.1	8.4

Includes general administration, instruction and departmental research, extension and public services, libraries, and operation and maintenance of the physical plant.

For further methodological details, see appendix A, table A-4.

NOTE: Data are for 50 States and the District of Columbia for all years.

SOURCES: Expenditure data from U.S. Department of Health, Education, and Welfare, Office of Education publications: (1) "Statistics of Higher Education, Biennial Survey of Education in the United States, 1957-58," chapter 4; (2) "Financial Statistics of Higher Education," 1959-60; (3) "Higher Education Finances," 1951-62 and 1963-64; "Financial Statistics of Institutions of Higher Education, 'Current Funds Revenues and Expenditures' and 'Property,' 1965-66 and 1956-67"; and (4) unpublished data in the Office of Education.

Includes expenditures for such items as laboratory schools, medical school hospitals, dental clinics, home economics cafeterias, agricultural college creameries, college-operated industrial plants connected with instructional programs but not actually integral parts of them, etc.

actually integral parts of them, etc.

Auxiliary enterprises include student dormitories, dining halls, cafeterias, student unions, bookstores, faculty housing, athletic programs not part of the instructional program, lectures, concerts, are.

Student aid consists of scholarships, fellowships, and prizes, and includes remission of fees. Current-fund expenditures less capital outlay from current funds.

⁵Interpolated.

Estimated.

Projected by applying the 1984-65 to 1968-69 trend in the Consumer Price Index to the projected expenditures of current funds in constant dollars (table 46).

Table 48.-- Capital outlay of institutions of higher education: United States, 1958-59 to 1978-79

	То	otal	Pul	blic	Nonp	oublic
Year	Billions of current dollars	Billions of 1968-69 dollars	Billions of current dollars	Billions of 1968-69 dollars	Billions of current dollars	Billions of 1968-69 dollars
(1)	(2)	(3)	(4)	(6)	(6)	(7)
1958-59 ¹	\$1.304	\$1.902	\$0.721	\$1.052	\$0.583	\$0.850
1959-60	1.354	1.917	.807	1.142	.547	.775
1960-61 ¹	1.737	2.403	.932	1.289	.805	1.114
1961-62	1.714	2.317	1.010	1.365	.704	.952
1962-63 ¹	2.534	3.333	1.596	2.099	.938	1.234
1963-64	2.466	3.151	1.518	1.939	.948	1.212
1959-60 to 1963-64	9.805	13.121	5.863	7.834	3.942	5.287
1964-65 ¹	2.825	3.519	1.595	1.987	1.230	1.532
1965-66	3.253	3.914	2.064	2.483	1.189	1.431
1966-67	3.943	4.494	2.573	2.932	1.370	1.562
1967-68 ²	3.543	3.835	2.599	2.813	.944	1.022
1968-69 ²	3.112	3.112	2.480	2.480	.532	.632
1964-65 to 1968-69	16.676	18.874	11.311	12.695	5.365	6.179
		PROJEC	TED ³			
1969-70	\$3.002	\$2.866	\$2.540	\$2.425	\$0.462	\$0.441
1970-71	3.044	2.782	2.545	2.326	.499	.456
1971-72		2.672		2.058		.614
1972-73		3.094		2.308		.786
1973-74		3.243	• • • • •	2.412		.831
1969-70 to 1973-74		14.657		11.529		3.128
1974-75		3.193		2.407		.786
1975-76		2.995		2.311		.684
1976-77		2.785		2.208		.577
1977-78		2.546		2.087		.459
1978-79		2.425	• • • • •	2.021		.404
1974-75 to 1978-79		13.944		11.034	• • • • • .	2.910

¹ Interpolated.

appendix A, table A-4.

NOTE: Data are for 50 States and the District of Columbia for all years.

SOURCES: Capital outlay data from U.S. Department of Health, Education, and Welfare, Office of Education publications: (1) "Statistics of Higher Education, Biennial Survey of Education in the United States, 1957-58," chapter 4; "Financial Statistics of Higher Education," 1959-69; (3) "Higher Education Finances," 1961-62 and 1563-64: "Financial Statistics of Institutions of Higher Education: Property, 1965-66 and 1966-67"; and (4) unpublished data in the Office of Education.

Estimated.

The projection of capital outlay is based on assumption that: (1) capital outlay per additional assumption that: (1) capital outlay per additional full-time-equivalent of total opening fall enrollment will follow the 1958-59 to 1968-69 trend insofar as capital outlay resulting in increased value of plant is concerned; (2) capital increased value of plant is concerned; (2) capital outlay for replacement and rehabilitation will remain constant at the level of 1 percent of value of plant each year through 1978-79; and (3) since capital outlay relates to increased numbers of students over a number of years rather than annually, a moving average would more reasonably reflect annual capital outlay.

For further methodological details, see appendix A table A-4.

CHAPTER VI

Student Charges by Institutions of Higher Education

C. George Lind

Definition and limitations

Estimated average student charges are based on the charges reported by institutions of higher education for the years 1961-62 through 1964-65 and 1966-67, weighted by the number of full-time students attending the institutions. The charges were those to a typical undergraduate full-time resident in-State student. Since reports on student attendance during the base years did not identify the full-time students as undergraduates, graduates, or nonresidents, the weighting factor assumes that graduates and nonresidents are charged the undergraduate and resident tuition and fees.

Estimated average charges per student (entire academic year) (tables 49 and 50)

The estimated average student charges (tuition and required fees, board, and room) by publicly controlled institutions of higher education, in 1968-69 constant dollars, increased from \$977 in 1958-59 to \$1,143 in 1968-69 and are expected to reach \$1,323 by 1978-79 (table 49). Estimated average student charges by nonpublicly controlled institutions of higher education were \$1,767 in 1958-59, \$2,433 in 1968-69, and are expected to reach \$3,122 by 1978-79.

Tuition and required fees are largely responsible for the increases in student charges. Tuition and fees in constant 1968-69 dollars charged by publicly controlled institutions rose from \$235 in 1958-59 to \$314 in 1968-69 and are expected to reach \$395 by 1978-79. Nonpublicly controlled institutions charged an estimated average tuition and fee of \$908 in 1958-59, \$1,443 in 1968-69, and are projected to be \$1,989 by 1978-79. Required fees are those for matriculation, laboratory, library, health, etc., but do not include books. Charges for tuition and required fees vary to a considerable extent by control and type of institution. Two factors bear upon the variation: (1) income of public institutions from government sources and (2) the varying cost of educating a student in different types of institutions.

The charges for board, while increasing slightly during the base period (table 50), when adjusted to constant 1968-69 dollars (table 49) had declined slightly in all but public universities and nonpublic 2-year institutions. The declines are not projected and, in effect, the assumption is made that the many large institutions which had held their board charges unchanged, in current unadjusted dollars, would not be able to continue that practice during the next decade.

Nonpublicly controlled institutions generally charge more than publicly controlled institutions for dormitory rooms, and universities generally charge more than other types of institutions for dormitory rooms. However, the rate of the increases in charges for dormitory rooms is not markedly dissimilar by either control or type of institution, and the variations in the charges may be ascribed to the level of accommodation afforded.



Table 49.—Estimated average charges (1968-69 dollars) per full-time undergraduate resident degree-credit student in institutions of higher education, by instit∉tional type and control: United States, 1958-59 to 1978-79

[For academic year, in constant 1968-69 dollars]

	Total	Total tuition, be	, board, and room	гоот] 	Tuition and required fees	equired fe	\$		Board (7-day basis)	ay basis)			Dormitory rooms	у гооть	
Year and control	All	Univer- sity	Other 4-year	2-year	₽	Univer- sity	Other 4-year	2-year	Ā	Univer- sity	Other 4-year	2-year	Ā	Univer- sity	Other 4-year	2-year
3	(2)	(3)	(4)	(2)	(9)	(2)	(8)	(6)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
1958-59:1							0.00	6		Ş	Ç	Ş	9	6004	9	100
Public	\$977 1,767	\$1,042 1,980	5861 1,648	\$669 1,177	\$232 908	1,060	\$176 820	\$ 92 475	\$507 559	\$508 293	550 550	48 6	300	327	278	216
Public	995	1.068	886	682	243	285	190	96	502	510	485	422	250	273	211	<u>\$</u>
Nonpublic	1,835	2,064	1,718	1,257	963	1,125	878	528	529	593	220	492	313	346	290	237
Public	1,012	1,096	606	697	250	SS	202	101	502	511	485	422	260	285	222	174
Nonpublic	1,905	2,148	1,789	1,339	1,018	1,190	935	285	223	293	220	200	328	365	8	257
Public	1,029	1,122	934	710	258	314	216	\$	501	513	485	422	270	292	233	18
Nonpublic	1,974	2,231	1,861	1,419	1,074	1,255	993	939	223	2 93	220	206	뚕	88	318	277
Public	1,055	1,155	953	721	260	314	225	114	509	534	472	423	286	307	256	184
Nonpublic	2,018	2,368	1,883	1,489	1,105	1,345	1,018	202	556	26	<u>7</u>	200	357	429	324	987 780
Public	1,069	1,184	716	728	270	324	248	112	505	2 7	461	417	297	320	263	<u>66</u>
Nonpublic	2,096	2,431	1,963	1,516	1,169	1,404	1,080	741	295	296	248	493	365	431	335	83
Public	1,083	1,199	886	728	717	340	255	113	497	527	458	412	806	332	275	203
Nonpublic	2,173	2,511	2,063	1,658	1,240	1,479	1,166	800	929	287	546	529	377	445	321	328
Public	1,096 2,236	1,234 2,584	1,005 2,118	748 1,739	287 1,287	365 1,527	267 1,212	122 858	496 552	529 590	454 538	409 528	313 397	340 467	38 38 38	217 353

1966-67:																
Public	1,1	1,267	1,024	769	8 8	390	8	13	495	230	451	404	318	347	293	R
Nonpublic1967-68:1	2,299	2,658	2,172	1,818	1,334	1,576	1,258	915	548	593	230	527	417	489	88	376
Public	1,127	1,295	1,042	778	906	405	293	135	493	532	444	404	328	358	305	24
Nonpublic	2,366	2,741	2,231	1,899	1,389	1,641	1,307	970	546	292	527	533	431	88	362	88
1968-69:1													į	}	i	}
Public	1,143	1,322	1,059	790	314	420	98	5	491	534	437	400	338	368	316	255
Nonpublic	2,433	2,824	2,290	1,970	1,443	1,705	1,356	1,024	544	592	524	539	446	527	410	416
						PROJ	PROJECTED ⁴									
1969-70:																
Public	\$1,161	\$1,350	\$1,085	\$803	\$322	\$434	\$320	\$144	\$491	\$537	\$437	\$400	\$348	\$379	\$328	25
Nonpublic	2,502	2,908	2,353	2,060	1,498	1,770	1,705	1,079	544	285	524	545	460	546	424	436
Public	1,179	1,378	1,109	818	330	449	333	149	491	539	437	400	358	390	339	260
Nonpublic	2,570	2,992	2,415	2,140	1,552	1,835	1,454	1,133	544	265	524	551	474	265	437	456
Public	1,197	1,406	1,134	83,	338	464	346	153	491	541	437	007	368	6	351	27.6
Nonpublic	2,640	3,075	2,477	2,221	1,607	1,899	1,503	1,188	544	295	524	227	489	8	450	476
Public	1,215	1,435	1,158	846	346	479	359	158	491	54	437	400	378	412	362	288
····· alignding	2,70g	801,5	7,5 4 0	2,300	7,007	400,	7,552	1,242	544 4	282	524	295	203	60 90 90	4 2	8

See footnotes at end of table.

Table 49.-Estimated average charges (1968-39 dollars) per full-time undergraduate resident degree-credit student in institutions of higher education, by institutional type and control: United States, 1958-59 to 1978-79-Continued

[For academic year, in constant 1968-69 dollars]

	Total	Total tuition, board, and room	oard, and	room	Ē	Tuition and required fees	equired fe	sa		Board (7-day basis)	ay basis)			Dormitory rooms	y rooms	1
Year and control	Ę	Univer- sity	Other 4-year	2-уеаг	= ¥	Univer- sity	Other 4-year	2-year	All	Univer- sity	Other 4-year	2-year	Α	Univer- sity	Other 4-year	2-year
(3)	(2)	(3)	(4)	(5)	(9)	(2)	(8)	(6)	(10)	(11)	(12)	(13)	(13)	(15)	(16)	(12)
1973-74:				,			į	Ş	į	4	ţ	Ş	100	ç	726	707
Public	1,233	1,462	1,183	820	322	494	3/2	102	£6.	ž į	5 1	3 6	è :	774	5 [6
Nonpublic	2,777	3,243	2,602	2,382	1,716	2,029	1,601	1,297	<u>x</u>	265	524	200	21/	779	//	25
1974-75: Public	1,251	1,490	1,208	872	363	509	382	166	491	548	437	400	397	433	386	306
Nonpublic	2,847	3,326	2,664	2,463	1,77,1	2,093	1,650	1,352	<u>\$</u>	592	524	574	532	64	490	537
1975-76:	,	,		į	į	į	8	ţ	Ş	C	707	ξ	707	777	202	316
Public	1,269	1,518	1,232	/88	3/1	274	200	=	3	000	?	3 1	} ;	;	3 8	? [
Nonpublic	2,915	3,410	2,726	2,543	1,825	2,158	1,699	1,406	<u>8</u>	292	224	280	546	99	203	22/
1976-77:							,	!	Ì	i	ţ	ç	ļ	474	Ş	Ş
Public	1,287	1,544	1,258	8	379	238	412	175	1	225	3	3	41/	40	3	270
Nonpublic	2,984	3,494	2,788	2,624	1,880	2,223	1,748	1,461	24	265	224	286	200	6/9	510	2/2
1977-78:								•	į	ļ	į	Ş	ļ	ţ	Ş	Ę
Public	1,305	1,573	1,282	915	387	227	422	180	491	555	43/	906	47/	402	979	3
Nonpublic	3,052	3,577	2,851	2,764	1,934	2,287	1,797	1,515	<u>8</u>	592	524	265	574	869	230	28/
1978-79:							,	į	,	į	ţ	•	ţ	Ţ	Ş	***
Public	1,323	1,601	1,307	928	302	200	438	<u>\$</u>	491	22/	43/	₹ 1	3	4/0	452	ŧ ;
Nonpublic	3,122	3,661	2,913	2,785	1,989	2,352	1,346	1,570	77	592	524	298	286	712	ξ <u>ξ</u>	/Lig
									Ì						į	

Estimated.
Represents charges weighted by number of full-time degree-credit students, 1961-62 through 1964-65, and weighted by full-time resident students for 1966-67. These charges, shown in table 50 in current dollars, were converted to 1968-69 constant dollars, by application of the Consumer Price Index. See constant dollar index, appendix

B, table B-8. Interpolated.

Interpolated.

The projection of basic student charges is based on the assumption that these charges will continue to increase through 1978-79 as they did during the base years of 1961-62 through 1964-65 and 1966-67, in constant dollars. Decreases in charges for board during through 1964-65 and 1966-67, in constant dollars.

ing the base period are not projected and are frozen at the 1968-69 level. The base year data for board charges, in current unadjusted dollars, did show an increase, but not enough to offset the application of the Consumer Price Index. For further methodological details, see appendix A, table A-4.

NOTE: Data are for 50 States and the District of Columbia for all years.

publications: (1) "Higher Education Basic Student Charges," 1961-62 through 1964-65 and 1966-67; and (2) "Opening (Fall) Enrollment in Higher Education," 1961 through 1964 and 1966. SOURCES: U.S. Department of Health, Education, and Welfare, Office of Education

Table 50.—Estimated average charges (current dollars) per full-time undergraduate resident degree-credit student in institutions of higher education, by institutional type and control: United States, 1958-59 to 1970-71

[For acedemic year, in current unadjusted dollars]

	Total	Total tuition, board, and room	oard, and	room	Tui	Tuition and required fees	equired fe	ses		Board (7-day basis)	ay basis)			Dormitory rooms	y rooms	
Year and control	₹	Univer- sity	Other 4-year	2-уеаг	Ē	Univer- sity	Other 4-year	2-year	₽	Univer- sity	Other 4-year	2-year	All	Univer- sity	Other 4-year	2-year
·. (E)	6	(3)	4	(9)	(9)	Ē	(8)	6)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
1958-59:1																
Public	\$794	\$847	\$700	\$544	\$191	\$220	\$143	\$ 75	\$408	\$413	\$394	\$343	\$195	\$214	\$133	\$126
Nonpublic	1,437	1,610	1,340	926	738	862	299	386	455	482	447	395	244	266	226	175
Public	820	88	730	563	200	235	156	92	414	421	9	348	206	225	174	136
Nonpublic	1,513	1,701	1,416	1,036	794	927	724	435	461	489	453	406	258	282	239	195
Public	845	915	759	582	506	250	69	8	419	427	405	353	217	338	185	145
Nonpublic	1,591	1,793	1,494	1,117	820	994	781	486	467	495	459	417	274	쳟	254	214
Public	869	947	788	266	218	265	182	88	423	£33	904	356	228	249	197	155
Nonpublic	1,666	1,882	1,570	1,198	906	1,059	838	537	472	200	464	427	288	323	268	234
Public	901	986	814	615	222	268	192	97	435	456	403	361	244	262	219	157
Nonpublic	1,724	2;022	1,608	1,271	944	1,149	698	8	475	204	462	427	302	386	277	2 4
Public	926	1,026	846	630	234	281	215	93	435	468	6 8	361	257	777	232	172
Nonpublic	1,815	2,105	1,700	1,313	1,012	1,216	935	642	487	516	475	427	316	373	290	244
Public	920	1,051	867	638	243	298	224	8	436	462	402	361	271	23	241	178
Nonpublic	1,907	2,202	1,810	1,455	1,088	1,297	1,023	702	488	515	479	464	331	88	308	583
Public	932	1,104	901	670	257	327	240	1 08	444	473	407	367	281	쳟	254	194
Nonpublic	2,004	2,315	1,896	1,557	1,153	1,365	1,086	768	492	528	481	473	326	419	329	316

See footnotes at end of table.

Table 50.—Estimated average charges (current dollars) per full-time undergraduate resident degree-credit student in institutions of higher education, by institutional type and control: United States, 1958-59 to 1970-71—Continued

[For academic year, in current unadjusted dollars]

	Total t	Total tuition, board, and room	ard, and r	moo.	Tri	Taition and required fees	equired fe	es		Board (7-day basis)	lay basis)			Dormitory rooms	y rooms	
Year and control	Ę	Univer- sity	Other 4-year	2-year	₽ H	Uníver- sity	Other 4-year	2-year	Ψ	Univer- sity	Other 4-year	2-year	Ali	Univer- sity	Other 4-year	2-year
(3)	(2)	(3)	<u>4</u>	(5)	9)	2	(8)	6)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
1966-67:	\$1,026	\$1,171	\$947	\$710	\$275	\$360	\$259	\$121	\$457	\$490	\$17	\$376	\$294	\$321	\$271	\$213
Nonpublic 2 1967-68:	2,124	2,456	2,007	1,679	1,233	1,456	1,162	845	206	248	480	487	382	452	322	347
Public 1	1,076	1,237	992	744	292	387	280	129	471	208	424	336	313	342	291	229
Nonpublic	2,258	2,617	2,130	1,813	1,326	1,567	1,248	926	521	265	203	200	411	482	379	378
Public 1	1,143	1,322	1,059	790	314	420	306	140	491	534	437	400	338	368	316	250
Nonpublic	2,433	2,824	2,290	1,979	1,443	1,705	1,356	1,024	544	592	524	539	446	527	410	416
•		,					PROJECTED	TED								i
1969-70: ¹						•	:									
Public 1	1,196	1,390	1,117	827	332	447	329	148	206	553	450	412	358	390	338	267
Nonpublic 2	2,576	2,993	2,423	2,121	1,542	1,822	1,447	1,111	260	609	539	561	474	295	437	449
	1,248	1,460	1,175	867	349	476	353	158	520	571	463	424	379	413	329	285
Nonpublic 2	2,722	3,168	2,552	2,267	1,644	1,943	1,540	1,200	929	627	555	584	502	598	463	483
Data for 1958-59 through 1960-61 and for 1967-68 through 1970-71 estimated by applying the Consumer Price Index to the data in table 49. See constant dollar index, anneadix B. table 48.	3-61 and lex to th	for 1967. ne data in	-68 throug table 49	th 1970-7 See con	1 estimal stant dof	967-68 through 1970-71 estimated by apta in table 49. See constant dollar index,	NOTE	Data and CES: U.S	e for 50 : Depart	NOTE: Data are for 50 States and the District of Columbia for all years. SOURCES: U.S. Department of Health, Education, and Welfare, Office of Education	the Distr Health, E	ict of Col	umbia for	r all years Ifare, Off	ice of Ed	ucati
Interpolation. For further methodological details, see app	etails, se	ie appendĭ	endix A, table A-4,	e A-4.				publica 1964-69 tion," 1	tions: (1 5 and 19 1961 thre	publications: (1) "Higher Education Basic Sແມຕິລະໄ Charges," 1961-62 through 1964-65 and 1966-67; and (2) "Opening (Fall) Enrollment in Higher Education," 1961 through 1964 and 1966.	Education	on Basic : Opening (16.	Studont C Fall) Enr	harges, ollment i	1951-62 n n Higher	Edu

APPENDIX A

General Methodology

Estimation Methods

Classification of Degrees by Field of Study

Changes in Degree-Level Definitions

Glossary

APPENDIX A

General Methodology

The 1969 projections of educational data by the U.S. Office of Education are based on reports of regular day schools, both public and private, and of accredited institutions of higher education listed in the *Education Directory* of the Office of Education.¹ The projections include enrollments at all levels, high school graduates, degrees by level and field, teacher and faculty demand, and expenditures in elementary and secondary schools and in institutions of higher education. Of these, projections were based directly on population for the number of children attending independent nursery and kindergarten schools, those attending kindergarten through second grade of regular public schools, enrollments in higher education, high school graduates, and degrees by level. The others, with the exception of enrollment in grades 3 through 12 of the public schools and of degrees by field, were based on enrollments. Enrollments in grades 3 through 11 of public schools were based on grade retention rates. (Retention rates could not be used for projecting higher education enrollments because the data on these enrollments have not been collected by year of enrollment.) Degrees by field were based on the distribution of total degrees by field at each level over a 10-year period.

Population aged 18-21 years was used for projecting college enrollments. It is recognized that not all college enrollments fall in this age group; nevertheless, in the absence of data on age of college students, some fairly sensitive yet stable exposure measure had to be used. Since about two-thirds of all degree-credit enrollment is full time, it can be assumed that around the same proportion of the students fit the population age group used. The population averaging 18 years of age was chosen for projecting both high school graduates and first-time college enrollment. This age group gave a smoother fit when correlated with these data than could be obtained with other age groups. For projecting kindergarten, first-grade, and second-grade enrollments, the populations aged 5, 6, and 7 years, respectively, were used.

For projecting degrees, a composite population representative of the actual ages of the recipients of such degrees was used. (For details of estimating this population, see p. 137.) To avoid escalation in rates, the projection of degrees was based directly on the composite population, with a suitable timelag taken into account.

The choice of average time elapsed between the ages for bachelor's degrees and master's degrees and between the ages for master's degrees and doctorates was made on an empirical basis. The different series of degree data were plotted against time so that different timelags between the series could be compared. The following choices were made: Age at time of master's degree, 2 years older than age at time of bachelor's degree; age at time of doctorate, 3 years older than age at time of master's degree.

For making the projections, regression methods were used wherever a trend could be established. Where no consistent series was available or the data were too irregular to establish a trend, a constant based on the latest observation or an average of the last two or three observations was used. For some projections—such as graduate enrollments, enrollments in institutions of higher education by full-time and part-time attendance, and nondegree-credit enrollments—relationships had to be obtained from a different series of data and transferred to the opening fall higher education enrollment series. The latter series is current and has been reasonably consistent in the past, although lacking some detailed characteristics which are required by educators for decisionmaking.

¹U.S. Department of Health, Education, and Welfare, Office of Education, Education Directory, 1968-69: Part 3, Higher Education. U.S. Government Printing Office, Washington, D.C., 1968.



For the trend, observations in the 10 most recent years were used, and these were extrapolated for 10 years into the future. The 10-year timespan was considered better than a longer timespan because of the rapid change in economic and social conditions and the improvement in the available statistics in recent years.

Straight lines fitted by the least squares technique to the ratio (for example, of enrollment to population) as the dependent variable and time in years as the independent variable were used for projecting whenever possible. The rationale for using the straight line is that the long-range, true curve of relationship would be likely to yield a straight line over any portion covering so short a timespan. An advantage in using straight lines is their additive property when the ratio bases are the same. This simplifies projection of components (all complex data are usually projected by components and summed).

The fitted straight line often lies considerably above or below the last observed point, resulting in an unusual rise or drop from the last actual observation. To avoid this and give face validity to the projections, the line was used only to establish the last point, and a new line was drawn through the last observed ratio and the end point on the curve. (In this case, the fitted equation is used only to establish the ratio at the end of the 10-year span.) When all of the component curves are adjusted in this manner, they are additive just as the original curves were. For this reason, when any curve in a group of components exhibited a serious difference from the last observation, all of the component curves were adjusted, even if differences were slight. An independent curve was adjusted only when the discrepancy was serious.

An exception to the use of the straight line for projecting trends was made in projecting grade-retention rates in the public schools. Because retention rates have risen rapidly in the past 10 years, a straight line equation would produce projected rates well above permissible limits. To allow for leveling off and to keep within such limits, an asymptotic equation was used, with limits at 100 percent, except at certain grade levels where transfer of students from nonpublic schools occurs in large numbers.

For each major area (enrollments, degrees, teachers, and expenditures), the tables that follow outline the equations and constants that were used; the standard error, when appropriate; and adjustments, if used. Adjustments have been expressed in terms of the projection equation. Footnotes explain the meaning of the variables and constants used for estimating.

The tables are followed by sections which explain the methods used in estimating missing data of the past 10 years, define the meaning of terms as used by the Office of Education in requesting data, and outline the classification of summerized degree data.



Table A-1.--Methodology (Chapter II)

tem							
Item	Text	Constant	1	Trend			
	table number	(percent)	Least squares equetion (v=percent; z=percent (natural logs); t=year; 1958=1)	Index of determination	Standard	Adjusted equation ^I	Other
Fall enrollment (independent public Pinderaren and nursey schools) ²	,						18,
3 years old	4	•	y'=0.045+0.038t	0.93	0.009	v'=0.053+0.038t	-
4 years old 5			y'=0.65+0.11t	86	.024	y'=0.65+0.11t	
5 years old			y'=4.53+0.20t	8	.078	y'=4.52+0.20t	
6 years old '			y'=2.68+0.20t	80:	.87	y'=2.24+0.23t	
kinderaarten and nursery schools?	0			,			8)
3 years old 9	1		y'=0.261+0.063t	.97	010.	y'=0.289+0.061t	
4 years old 10			y'=0.60+0.10t	86 [.]	.029	y'=0.57+0.10t	
5 years old 1			y'=1.0746+0.0089t	හි.	.095	y'=0.9865+0.0147t	,12,
Fall enrollment (regular public day		:					-
schools)	ო						
Kindergarten 13			y'=44.66+1.34t	. 9 .	1.05	y'=49.25+1.12t	
Grade 1.4			y'=95.38-0.14t	Ŗ	55.	y'=95.84-0.16t	
Grade 2 ¹³			y'=88.7927-0.0021t	.0003	88; 88;	y'=88.036+0.034t	
Grade 3, "			z'=log (100-y')=0,586-0.056t	. 24	£.		
Grade 41			$z'=\log (100-y')=0.407-0.048t$. .	.254		
Grade 5.7			$z'=\log (100-y')=0.389-0.160t$	\$.627		
Grade 617			z'=log (100-y')=0.952-0.235t	.65	.608 808		
Grade 720			z'=log (104·y')=1.334-0.108t	11.	.206		
Grade 821			z'=log (100.y')=1.386-0.134t	.87	.182		
Grade 922			z'=log (105-y')=1.478-0.158t	163	.425		
Grade 10,2,			z'=log (100-y')=2.169-0.118t	35	.120		
Grade 11 2			z'=log (100-y')=2.507-0.052t_	.82	.085 85		
Grade 12 ²³			z'=log (100.y')=2.455-0.046t	.60	.134		

Elementary ungraded 26	y'=0.767+0.053t v'=0.728+0.074t	.66 .97	.134 .048	y'=1.282+0.028t y'=0.826+0.069t	
Secondary ungraded 28	v'=0.011±0.036t	99.	.083	y'=0.209+0.026t	
Post graduate	y'=50.02+1.35t	8.	2.11	y'=58.98+0.92t	
day schools) 3,4				(30)	6
Grades kindergarten to 8				(31	-
Degree-credit fall enrollment 22 6-8,13	**************************************	88	1.09	v'=20.20+0.85t	
Men, public 4-year institutions	y = 10.000 (0.000)	26	.57	y'=11.71+0.96t	
Women, public 4-year institutions	, = 10,00 · 1,00	.75	14.	y'=18.15-0.16t	
Men, private 4-year institutions	,=0.0154 ,=0.01540	4	.318	y'=8.826+0.135t	
	y -5:5157 5:555.	.92	.47	y'=5.41+0.40t	
	V=1 79+0 37t	.93	33	y'=3.01+0.31t	
Women, public 2-year institutions	v'=0 505±0 039t	8.	.067	y'=0.465+0.041t	
Men, private 2-year institutions	**************************************	8	034	v'=0.497+0.024t	
	V=U.544+U.022	<u> </u>			
Nondegree-credit fall enrollment ³³ 9-11	*0000 0:0000	ğ	0470	v'=0.4894+0.0049t	
Men, public 4-year institutions	V=0.4042+0.00891	1 82	8	v'=0,2337+0,0073t	
Women, public 4-year institutions	y =0.09040.014t	8	0264	v'=0.2108-0.0052t	
Men, private 4-year institutions	7-0.022.13-0.0037.1 	6	.013	y'=0.0621+0.0065t	
Women, private 4-year institutions	y -0.07 75 - 0.00 y	8	œ,	y'=1.78+0.21t	
Men, public 2-year institutions	101.01.11 V	8	.22	v'=0.80+0.16t	
Women, public 2-year institutions	y =0.23.5.131	8	.046	y'=0.547-0.032t	
Men, private Z-year institutions	*0000 0 CV0C 0-7:	0119	.0280	v'=0.1400+0.0022t	
Women, private 2-year institutions	100000 14070- 1		1	•	

See footnotes at end of table.

Table A-1.—Methcdology (Chapter II)—Continued

			Projection method	nethod			
:	Text	Constant		Trend			
Item	table number	(percent)	Least squares equation (Ympercent; Zmpercent (natural logs); tmyear; 1958=1)	Index of determination	Standard	Adjusted equation ¹	Other
-ull-time nondegree-credit							
fall enrollment 34	9-11						
tions		49.3					
Women, public 4-year institutions		42.1					
Men, private 4-year institutions		27.1					
Women, private 4-year institutions		46.4					
Men, public 2-year institutions		47.3					
Women, public 2-year institutions		43.8					
Men, private 2-year institutions		6.99					
Women, private 2-year institutions		70.9					
-ull-time-equivalent degree-credit							
fall enrollment ³⁵	12						
Public institutions		33.0					
Private institutions		33.0					
-ull-time-equivalent nondegree-credit							
fall enrollment	2		2				
Public institutions		28.0	7				
Private institutions		28.0		•			
irst-time degree-credit							
fall enrollment	14-16						
Men, public 4-year institutions			y'=14.96+0.52t	0.87	99.0	y'=14.71+0.58t	
Women, public 4-year institutions			y'=10.18+0.71t	.97	.42	y'=9.31+0.82t	
Men, private 4-year institutions			y'=13.88-0.19t	.73	8 .	y'=13.63-0.20t	
Women, private 4-year institutions			y'=9.5557-0.0088t	<u>6</u>	83.	y'=9.062+0.014t	
Men, public 2-year institutions			y′=5.73+0.83t	.87	1.09	y'=7.70+0.81t	

Women, public 2-year institutions Men, private 2-year institutions Women, private 2-year institutions Full-time first-time degree-credit fall enrollment	. 14-16	y'=3.16+0.61t y'=0.925+0.066t y'=1.131+0.039t	16. 18. 86.	.070 .070 .054	y'=4,11+0.62t y'=0.842+0.076t y'=1,139+0.042t
=	89.9 9.88				
Men, private 4-year institutions	90.2 91.3				
Women, public 2-year institutions	98.				,
Men, private 2-year institutions	87.8				
Graduate fall enrollment, (4-year institutions) 39	17				
Men, public institutions		y'=11.84+0.28t y'=> 54+0.40	.93 84	.24 8	y'=11.26+0.31t v'=8 92+0.37t
Men, private institutions		y'=13.36+0.17t	. 63	.15	y'=13.57+0.16t
Women, private institutions		y'=8.64+0.22t	.92	.21	y'=9.19+0.19t
Full-time graduate fall enrollment (4-year institutions) 40	17				
Men, public institutions	48.1				
Worren, public insutations	47.2				•
Women, private institutions	44.4				

See footnotes at end of table.



Fable A-1.—Methodology (Chapter II)—Continued

Full-time undergraduate and first- professional degree-credit fall enrollment (4-year institutions) Full vime undergraduate degree-credit fail enrollment (2-year institutions) Men, public institutions Men, public institut	Trend
19 81.3 77.2 78.8 79.1 8 58.6 58.6 48.1	
60 80 80	equation Index of Standard Adjusted equation (
<u>σ</u>	
co	
∞ : : :	
: :	
:	
Men, private institutions	
Wnmen, private institutions 84.0	

 $^{11}\,\mathrm{y}$ = percent 5-year-olds enrolled in private kindergarten and nursery schools is of $_{\rm V2}$ population aged 5 years. Constant = 1967 number (in thousands) of 6-year-olds enrolled in private kindergarten and nursery schools.

Adjusted by relocating line through last observed point and 1978 point of fitted line. Total public kindergarten and nursery achool enrollment less kindergarten enrollmen. y = percent 3-year-olds enrolled in public kindergartsn and nursery schools is of

in regular public day schools. First observation is for 1964.

population aged 3 years.

population aged 4 years. population aged 5 years,

 $\frac{\lambda^2}{14}\gamma = \text{percent kindergarten enrollment is of population aged 5 years.}$ 14, percent 1st grade enrollment is of population aged 5 years.

15 y = percent 2nd grade enrollment is of population aged 6 years.

16 y = percent 2nd grade enrollment is of population aged 7 years.

z = percent (in natural logs) grade 3 is of grade 2 in preceding year with restriction that percent cannot exceed 100. y = percent 4-year-olds enrolled in public kindergarten and nursery schools is of y = percent 5-year-olds enrolled in public kindergarten and nursary schools is of

z = percent (in natural logs) grade 4 is of grade 3 in preceding year with restriction z = percent (in natural logs) grade 5 is of grade 4 in preceding year with restriction that percent cannot exceed 100. y = percent 6-year-olds enrolled in public kindergarten and nursery schools is of

z = percent (in natural logs) grade 7 is of grade 6 in preceding year with restriction that percent cannot exceed 104. (Transfers from nonpublic schools assumed to acz = percent (in natural logs) grade 6 is of grade 5 in preceding year with restriction that percent cannot exceed 100. 20 that percent cannot exceed 100. indergarten and nursery school enroliment less kindergarten enrolly = percent 3-year-olds enrolled in private kindergarten and nursery schools is of y = percent 4-year-olds enrolled in private kindergarten and nursery schools is of

ment in regular nunpublic day schools.

population aged 3 years.

population aged 4 years.

population aged 6 years.

Total nonpublic

count for excess over 100.)

z = percent (in natural logs) grade 8 is of grade 7 preceding year with restriction that 22 percent cannot exceed 100

z = percent (in natural logs) grade 9 is of grade 8 in preceding year with restriction that percent cannot exceed 105. (Transfers from nonpublic schools assumed to ac-23 count for excess over 100.)

z = percent (in natural logs) grade 10 is of grade 9 in preceding year with restriction

that percent cannot exceed 100, z=1 percent (in natural logs) that grade 11 is of grade 10 in preceding year with restriction that percent cannot exceed 100,

z = percent (in natural logs) grade 12 is of grade 11 in preceding year with restriction that percent cannot exceed 100,

y = percent elementary ungraded enrollment is of population aged 5 to 13,

29 y = percent postgraduate enrollment is of population aged 18 at nearest birthday. 28 y = percent secondary ungraded enrollment is of population aged 14 to 17.

30 y = percent 7th and 8th grades organized as secondary are of total 7th and 8th grades. Approximations based on the assumption that the number of enrollments in grades K-8 in nonpublic schools will continue to decrease to 1972, and then remain constant 31 through 1978.

2. Approximations based on the assumption that the number of enrollments in grades 329-12 in nonpublic schools will remain at the 1968 level through 1978.

years (projected separately for each category by sex and by type and control of 33 completed years (projected separately by sex and by type and control of institution). y = percent that opening fall nondegree-credit enrollment is of population aged 18-21 y = percent opening fall degree-credit enrollment is of population aged 18-21

Constant = percent that full-time nondegree-credit enrollment was of total nondegreecredit enrollment in 1968, calculated separately by type and control of institution and institution)

 35 Constant st percent that full-time equivalent of part-time degree-credit enrollment was of part-vime degree-credit enrollment in the 1964 full-time-equivalent enrollment and 3_6 credit-hours survey (percent same in publicly and privately controlled institutions). Constant \approx percent full-time equivalent of part-time nondegree-credit enrollment was

of part-time nondegree-credit enrollment in the 1964 full-time-equivalent enrollment and credit-hours survey (percent same in publicly and privately controlled institu

population aged y = percent that first-time opening fall degree-credit enrollment is of separately by sex and by nearest birthday (projected 18 at tions).

38 institution). Constant = percent that full-time first-time degree-credit opening fall enrollment was 39 of total first-time degree-credit opening fall enrollment in 1968.

ong fall degree-credit enrollment in 4-year institutions. 40 Constant = percent that full-time enrollment for advanced degrees was of tota! enrolldent plus extension, graduate plus undergraduate enrollment in 4-year institutions (projected separately by sex and control of institution). The extrapolated percentages were applied to projected resident plus extension, graduate plus undergraduate open total resi y = percent that estimated resident graduate degree-credit enrollment is of

ment for advanced degrees in 1967, adjusted by trends shown in the 1968 advance Constant pprox percent that full-time undergraduate and first-professional (calculated as report of enrollment for advanced degrees and calculated separatally for each category the difference between reported full-time degree-credit opening fall enrollment and estimated graduate enrollment) was of degree-credit total enrollment in 1968. Estiby type and control of institution and by sex.

 4_2 only. Constant $^{\rm a}$ percent that full-time opening fall degree-credit enrollment was of total opening fall degree-credit enrollment in 1968, calculated separately by control o institution and sex in 2-year institutions only.

mates were made separately by control of institution and sex in 4-year institutions

Table A-2.--Methodology (Chapter III)

				Projection method	þ		
Item	Text			Tri	Trend		
	number	Constant (percent)	Least squares equation (t=year; 1957-58=1)	Index of determination	Standard error	Adjusted equation	Other
High school graduates	ଷ				:		
Men			y'=51.92+1.32t	0.89	1.61	y'=50.26+1.40t	
Women Women		•	y'=56.56+1.13t	.87	1.53	y'=54.94+1.20t	
Nonpublic		748.1					
Bachelor's and 1st-protessional degress	ä		0000000	Ş	Ļ	401 0100 80-11	
Conterred on men	7 66		V=22.U/+U.23T	Ş	6/:	y -24,0070,100	
Anthomatic and desirate	3			Ę	QV	,,=1 50±0 22¢	
Mathematics and statistics		70.00	y -2.32+0.17t	ō.	ţ.	y ~1.30+0,221	
Engineering		9.00	v'=5 70.0 12t	78	85	v'=5.50-0.11t	
Biological sciences			v'=4.16+0.17t	6.	.20	v'≈3.92+0.18t	
			y'=3.207-0.095t	TT:	.18	y'=3.51-0.11t	•
Health professions						• • • • • • • • • • • • • • • • • • • •	©
Science, general program			y'=0.6563-0.0093t	82:	.050	y'=0.5607-0.0051t	
Fine arts			y'=4.082+0.025t	.25	.15	y'=4.5026+0.0068t	
Philosophy and religion			y'=2.253-0.021t	.48	.078	y'=2.030-0.012t	
English and journalism			y'=3.19+0.14t	96:	660.	y'=3.01+0.15t	
Foreign languages			y'=0.657+0.073t	9 6:	.065	y'=0.433+0.083t	
Psychology			y'=1.32+0.19t	86:	760.	y'=1.57+0.18t	
Social sciences			y'=12.49+0.67t	96:	.46	y'=12.78+0.66t	
Education			y'=8.20-0.16t	90	.18	y'=8.18-0.16t	
Library science		,.02 					
Social work		7.15					
Other			y'=28.31-0.23t	Tr.	.45	y'=29.93-0.30t	

		Đ					
y'='j1.24+0.58t	y'=1,44+0.16t	y'=1,445-0,044t y'=2,166+0,034t y'=0,0865+0,0011t	y'=0.3368-0.021t y'=9.161-0.020t y'=1.472-0.054t	y'=7.94+0.40t y'=1.04+0.37t y'=2.51+0.10t v'=9.37+0.55t	y'=38.52-0.78t y'=14.65-0.44t	y'=4.30+0.36t	y'=11.94+0.12t y'=5.92-0.15t y'=3.186+0.027t
.23	91.		.022 .35 .039	성 양 년 <u>유</u>		.25	1.02 .38 .067
66:	88	.87 .85	.07 .05 .96	.98 .97 .87	8. 8.	.97	.0029 .75
y'=10.47+0.62t	y'=1.77+0.14:	y'=1.511-0.047t y'=2.619-⁄0.074t y'=0.0523+0.0026t	y'=0.3280-0.0017t y'=8.165+0.023t y'=1.429-0.052t	v'=8.59+0.37t v'=1.65+0.34t v'=1.93+0.13t	y =6.7.370.301 y'=40.21-0.86t y'=13.21-0.38t	y'=3.51+0.39t	y'=14.395+0.016t y'=6.78-0.19t y'=3.229+0.026t
	7 22	<i>(</i> 0:			7.27	=	5.00
23	ឌ					22 22	
Bachelo.*'s and 1st-professional degrees conferred on women	Selected fields	Engineering	Health professions	English and journalism Foreign languages Psychology		Master (except 1st-profesional) degrees conferred on men Selected fields 10	Mathematics and statistics

Sea footnotes at end of table.

TO THE SECOND CONTROL OF THE SECOND CONTROL OF S

Table A-2.—Methodology (Chapter III)—Continued

			1	Projection method	7		;
ftem	Text			Tre Tre	Trend		
	number	Constant (percent)	Least squares equation (t=year; 1957-58=1)	Index of determination	Standard	Adjusted equation	Other
Agriculture, forestry		11,50					
Health professions			y'=2.103-0.044t	0.59	0.13	y'=2.130-0.045t	
Science, general program			y'=0.619+0.017t	.07	12	y'=0.362+0.028t	
Fine arts			y'=5.950-0.077t	.65	.20	y'=6.468-0.160c	
Philosophy and religion			y'=1.464-0.045t	69:	.11	y'=1.660-0.054t	
English and journalism			y'=3.030+0.049t	67.	60:	y'=2.893+0.055t	
Foreign languages			y'=1.075+0.076t	88.	.10	y'=1.035+0.078t	
Psychology			y'=1.822+0.049t	.70	Ε.	y'=1.912+0.045t	
Social sciences			y'=8.99+0.21t	88.	.27	y'=8.38+0.24t	
Education		;	y'=35.14-1.00t	.95	.78	y'=35.83-1.03t	
Library science		11,00					
Social work		112.00					
Other			y'=10.15+0.57t	.62	1.57	y'=13.44+0.43t	
Master's (except 1st-professional) degrees							
conferred on women	2		y'=1.42+0.23t	.86	.32	y'=2.62+0.17t	
Selected fields 10	24						
Mathematics and statistics			y'=1.27+0.11t	57.	:24	y'=0.57+0.14t	
Engineering ;			y':=0.0947+0.0052t	Ŗ.	.017	y'=0.1048+0.0047t	
Physical sciences			y'=1.438-0.029t	.32	.15	y'=1.210-0.019t	
Biological sciences			y'=2.067+0.056t	섫	.27	y'=1.621+0.075t	
Agriculture, forestry			y'=0.0789+0.0073t	8	.020	y'=0.0402+0.0090t	
Health professions			y'=3.311-0.047t	.32	.24	y'=3.480-0.054t	
Science, general program			y'=0.29+0.0063t	1.	.062	y'=0.3069+0.0356t	
Fine arts			y'=7.434+0.028t	.12	.26	y"=6.898+0.051t	
Philosophy and religion			y'=0.7971-0.0047t	.00	14	y'=1.015-0.014t	
English and journalism			y'=5.89+0.20t	.65	.52	y'=4.50+0.26t	
Foreign languages			y'=1.82+0.28t	.95	.22	y'=1.11+0.31t	

y'=1.604+0.034t y'=3.85+0.18t y'=66.72-1.88t	y'=7.09-0.16t	8 y'=0.609+0.096t	y'=2.43+0.20t			y'=13.14-0.14t '-4 68-0 12t						y'=2.245+0.025t	y'=5.970-0.043t				5	v'=4.044-0.029‡	
.16 .35 1.20	.28	.048	.16	.65	.57	පු ද	ς. Ε. Ε.	.02	.20	.20	.15	91.	.22	8	Ü	•	074	5 2	į
.74 .67 .96	80	86:	94	96:	.82	85. S	9. 4	. <u></u>	.57	.32	0000	44.	.46	46	2	Ş	ç	5 5	Ę
y'=1.720+0.079t y'=4.78+0.14t y'=64.28-1.78t	v'=7 04-0 16t	y'=0.532+0.100t	v'=2.78+0.18t	y'=7.30+0.74t	y'=21.17-0.34t	y'=11,909-0.085t	y'=5.02-0.14t y'=1 618-0 047t	v'=0 0200±0 0032±	v'=3 684-0 066t	v'=2.457-0.039t	v'=3.630705-0.000042t	v'=1 868+0 042t	v'=6 326.0 058±	v'=12 184-0 090t	y - 15.104-0.000	y=14,197-0.05st	4000 O OFF	V =0.1739+0.0033t	y =4.509-0.050t
į	117.00 115.00															14.22	90.		
		73	R																
PsychologySocial sciencesEducation	Library scienceSocial work	Other	Selected fields	and statistics	Engineering	Biological sciences	Agriculture, forestry	Health professions	Science, general program	Fine arts	nd religion	English and journalism	Foreign languages	Psychology	Social sciences	Education	Library science	Social work	Other

See footnotes at end of table.

Table A-2.—Methodology (Chapter III)—Continued

				Projection method	'n		
Item	Text table			Tre	Trend		
	number	(percent)	Least squares equation (t≃year; 1957-58=1)	Index of determination	Standard	Adjusted equation	Other
Doctor's degrees conferred on women 12 Selected fields 13	22		y'=0.055+0.014t	0.94	1.30	y'=0.096+0.012t	
Mathematics and statistics			y'=1,48+0.10t	.32	.52	v'=-0.11+0.17t	
Engineering			y'=0.327+0.018t	Ε.	.17	v'=0.116+0.027t	
Physical sciences			y'=6.7566-0.0076t	.0035	.45	y'=6.3654+0.0035t	
Biological sciences			y'=11.85+0.21t	.35	1.01	y'=13.61+0.14t	
Agriculture, forestry			y'=0.665-0.020t	01.	.23	v'=0.595-0.017t	
Health professions			y'=0.607+0.040t	.26	53	y'=0.654+0.037t	
Science, general program			y'=0.0162+0.0072t	.19	.052	v'=-0.0713+0.0096t	
Fine arts			y'=5.678-0.088t	.19	2 6.	y'=5.157-0,065t	
Philosophy and religion			y'=2.066-0.058t	14	.50	y'=1.836-0.048t	
English and journalism			y'=6.30+0.23t	.61	.65	y'=6.82+0.21t	
Foreign languages			y'=5.729+0.091t	14	92.	y'=6.281+0.067t	
rsychology ygchology			y'=9.55+0.24t	4	96:	y'=8.39+0.29t	
Social sciences			y'=11.038-0.024t	.0071	1.01	v'=12.293-0.079t	
Education		:	y'=30.78-0.61t	.76	1.21	v'=32.41-0.68+	
Library science		14.20			ļ		
Social work			y'=0.8990+0.0093t	.02	.26	v'=0.102+0.044f	
Other			y'=5.94-0.13t	.48	.48	y'=5.111-0.096t	

Adjusted by relocating line through last observed point and 1978-79 point of fitted line. We be percent that public high school graduates are of population averaging 18 years of $\frac{1}{3}$ ege for men and women separately.

Assumes approximately no change in number of nonpublic high school graduates through 1978-79.
Constant = percent that boys were of nonpublic high school graduates in 1964-65.
Y = percent that B.A. degrees are of population averaging 18 years of age 4 years

,y = percent that B.A. degrees in these selected fields are of all B.A. degrees, Constant = percent that B.A. degrees in these selected fields were of all B.A. degrees in 1967-68.

Onpublished projections by Center for Health Statistics, based on estimates of expanding facilities for training and on data showing applications in excess of present geapacity.

y = percent that M.A. degrees are of population averaging 18 years of age 6 years

10 aarlier, 11 y = percent that M.A. degrees in these selected fields are of all M.A. degrees. Constant = percent that M.A. degrees in these selected fields were of all M.A. degrees 12 in 1967-68.

12 in 1967-68. That doctor's degrees are of population averaging 18 years of age 9 years 1_3 earlier.

13 14 V = percent that cloctor's degrees in these selected fields are of all doctor's degrees. Constant = percent that doctor's degrees in these sciected fields were of all doctor's degrees in 1957-68.

Table A-3.-Methodology (Chapter IV)

•			Pro	Projection method			
	Text			Trend			
İtem	table number	Constant (percent)	Least squares equation (y=percent; t=year; 1958=1)	Index of determination	Standard	Adjusted equation	Other
Classroom teachers in regular day schools Public elementary Public secondary	8						£.6.6.£
Nonpublic secondary	23		y'=28.83-0.10t y'=21.700-0.021t log (y'-28)=2.701-0.139t log (y'-15)=1.348-0.076t	0.67 19. 79. 89.	71.0 11. 41.	y'=28.523-0.089t y'=21.625-0.018t	
Demand for classroom teachers in public regular day schools	88		- 4		•		£.
For enrollment increase	8	8.0			:		(₆)
For enrollment increase	. 08	4.0	y'=107,63+0.32t	8. 8.	.17		(₁₀) .
Nonpublic		•	y'=12.68+0.10t y'=10.119+0.033t	.72 .65	.21 .079	y'=12.11+0.13t y'=10.265+0.026t	

See footnotes at and of table.

Table A-3.—Methodology (Chapter IV)--Continued

			rq	Projection method			
Item	Text			Trend			
	number	Constant (percent)	Least squares equation (y=percent; t=year; 1958=1)	Index of determination	Standard error	Adjusted equation	Other
Public 2-year institutions 12 Prints 2-year institutions 11		19.0	400 OTO3 OF -1.1				
Full-time instructor or abov 2 13		56.8	y =10.59+0.56t	0.74	0.72	y'=9.08+0.46t	
Part-time instructor or above 14		28.2					
Junior instructional staff ¹³		15.0					
for resident degree-credit courses	32						
Full-time equivalent of part-time 16		33.0					
Full-time equivalent of junior							
instructional staff ¹⁷		33.0					
Total full-time and part-time professional staff	;						
In institutions of higher education: Public 4-vear institutions:	33-37						
Instructional staff:							
For resident degree-credit courses							(18)
Other instructional staff		26.0			•		
Administration and services 20		13.0					
Organized research 21		20.0					
Private 4-year institutions:							
Instructional staff:							
Other instructional staff 19		. n					(,,)
Other professional staff:		È					
Administration and services 20		19.0					
Organized research		10.0					

					•			• • • • • • • • • • • • • • • • • • • •													
		40.3		15.0	30.				39.0		55.0	1.0		•	38			71.0		71.0	71.0
Public Z-year institutions:	mstructional state.	Other instructional staff	Other professional staff:	Administration and services	Organized research 21	Private 2-year institutions:	Instructional staff:	For resident degree-credit courses	Other instructional staff 19	Other professional staff:	Administration and services	Organized research 21	Total estimated full-time-equivalent	professional staff employed in	institutions of higher education	Instructional staff:	For resident degree-credit courses	Other instructional staff 3	Other professional staff:	Administration and services	Organized research ^{2,3}

(22)

 $(^{18})$

(18)

See footnotes at end of table.

Table A-3.—Methodology (Chapter IV)—Continued

		Other	(24)
		Adjusted equation	
		Standard srror	
Projection method	Trend	Index of determination	
F		Least squares equation index of (y=percent; t=year; 1958=1) determination	39
		Constant (percerit)	6.0
	Text	number	88
	met		Total demand for estimated full-time-equivalent professional staff in institutions of higher education

Projected enrollment (table 4) divided by projected pupil-teacher ratio (table 27) for Adjusted by relocating line through last observed point and 1978 point on fitted line each type of school by control and level.

y = ratio of number of pupils to number of teachers with restriction that ratio cannot y = ratio of number of pupils to number of teachers.

y = ratio of number of pupils to number of teachers with restriction that ratio cannot go below 26.

go below 15.

incrusse in total teacher demand over each previous year.

y = ratio, instructional staff to classroom teachers (staff-teacher ratio times projected 8 percent of total teacher demand in each previous year. 4 percent of total teacher demand in each previous year oclassroom teachers = projected instructional staff).

12 category by type and control of institution. Constant = 1968 student-staff ratio (enrollment (table 8) divided by instructional staff y withdent-staff ratio (enrollment (tables 7 and 8) divided by instructional staff for resident degrae-credit courses (tables 34 through 37)) calculated separately for each Instructional staff assum/sd = classroom teachers.

13 for resident degree-credit courses (table 36)).

Constant = percent full-time instructor or above was of total instructional staff in

1963-64 for all institutions,

14 Socret of an instruction instructor or above was of total instructional staff in 15 500007 for all management junior instructional staff was of total instructional staff in 1963-64 1963-64 for all institutions,

16 for an instruction or above was of part-time instructor or above was of part-time instructor or above was of part-time instructor or above in 1963-64.

for all institutions.

¹⁷Constant = assumption this percent (not reported by institutions) is same as for

full-time equivalent of part-time instructor or above (reported by institutions). See method detailed for table 31 in footnotes 11 and 12 of this table (methodology table A.3), Constant = percent total full-time and part-time other instructional staff was of total

fuit-time and part-time instructional staff for resident degree-credit courses in 20 1963-64, calculated separately for each category by type and control of institution. Constant $^{\rm L}$ percent total full-time and part-time professional staff for administration and services is of total full-time and part-time instructional staff for degree-credit courses in 1963-64, calculated separ∌tely for each categor⊬ by type and control of

organized credit courses in 1966-67, calculated separately for each category by type and control research is of estimated total full-time and part-time instructional staff for degree- $2_{\rm d}$ institution. Constant = percent total full-time and part-time professional staff for

 22 of institution. 22 See method detailed for table 32 in footnotes 16 and 17 of this table (methodology

23 table A-3).
Constant = percent full-time equivalent instructional sigff for restrient degree-credit courses is of total full-time and part-time instructional staff for resident degree-crydit courses in 1963-64. This percent is assumed to apply to all full-time equivalents as 24 percent of total full-time and part-time staff.

25 Constant = 8 percent of total full-time equivalents employed in previous year. Increase in total full-time equivalents employed over each previous year.

NOTE: Sources of data and assumptions on which projections were based are given in text footnotes,

Table A-4.--Methodiclogy (Chapters V and VI)

				rrojection method			
:	Text			Tre	Trend		Other
ikem	number	Constant	Least squares equation (t=years; 1958-59=1)	Index of determination	Standard	Adjusted equation	
Expenditures for education by elementary and secondary day schools	40,41						
Current expenditures: Public					:		(¹)
Nonpublic							
Public							Ç€
Nonpublic		•					(5)
Public	: : : : :						
Nonpublic							
expenditures or education by insurations of higher caucation	40,41						
Current expenditures:							(2)
Public							
Nonpublic							ę
Public							ેઈ
Current expenditures of public school systems	42						
Average daily attendance		² 92.8					
costs (excluding effects of 1909 (egislation): 10 Fer numi in average daily attendance			y'=\$419.43+\$18.82(t) ¹¹	1.00	\$1.58	y'=\$387.96+\$18.76(t)	12,
Total							

See footnetes at end of table,

Table A-4.—Methodology (Chapters V and VI)—Continued

Current expenditure allocated to pupil costs (including effects of 1965 legislation): 10 Per pupil in average daily attendance	Constant		1	Trond		
	Constant			2		Other
Current expenditure allocated to pupil costs (including effects of 1965 tegislation): 10 Per pupil in average daily attendance		Least squares equation (t=years; 1958-59=1)	Index of determination	Standard	Adjusted equation	
Current expenditures for all programs (excluding						(13)
effects of 1965 legislation)	15,035					(14)
Current expenditures for all programs (including effects of 1965 legislation) 10	16 103.5					
Expenditures for salaries of instructional staff in public elementary and						
Secondary day schools						
of 1965 legislation) 10		y'=\$4,478+\$310(t) ¹⁷	0.99	\$16,2,08	y'=\$5,139+\$278(t)	
Average annual salary (excluding effects						(18)
of 1905 registation/ Total salary		y'=\$5,872+\$213(t)	66.	\$42.77	y'=\$5,775+\$217(t)	:
ry and secondary	•					(, 0
Rooms completed		y'=69,486+145(t) ¹⁹	.02	3,168	y'=78,114-247(t)	
Total						
y public elementary						<u>:</u>
and secondary schools45		y'=\$4,861+\$852(t) ²¹	66.	\$31.25	y'=\$389+\$57(t)	

general purposes:						
Student education:			~=\$1 281 36+\$26.53(t) ²²	90	\$33.838	y'=\$1,366.22+\$22.68(t)
Public			, =\$1 212.37+\$73.68(t) ²³	S,	\$21.443	y'=\$1,219.40+\$73.36(t)
Nonpublic			;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;			
Organized research:			=4272 793+\$97 163(t) ²⁴	Ş	\$28,665	y'=\$318,087+\$99,695(t)
Public			y -\$3,3,33.\$3,35,5 √=\$390,739+\$121,276(t) ²⁵	86.	\$73,402	\$73,402 y'=\$117,232+\$129,163(t)
Nonpublic						
Related activities:			'=0 622±0 105(1) ²⁶	65.	.343	y'=9.319+0.1191(t)
Public			y =3.02£: 0.100(1) √=8 491+0 093(†) ^{2.7}	4.	.217	y'=8.649+0.086(t)
Nonpublic			, c. 161:0- 4			
Expenditures for auxiliary enterprises:				90	.799	y'=24.828+0.135(t)
Public			y -2011010:000000 =22 159+0 179(†) ²⁹	1.	1.880	y'=29.984+0.278(t)
Nonpublic			1.02:10:00:00:1			
Expenditures for student aid:			.,=2 644+0 172(+) ³⁰	57:	.405	y'=3.729+0.123(t)
Public			y 2.34 10.93(t) 31	.74	.217	y'=8.649+0.086(t)
Nonpublic			,			
Capital outlay from current funds only:		32,6 00				
Public		32,6,0%				
Nonpublic		90.0				
Capital outlay of institutions of	ç					
higher education	8					
Public:		3347 603 67				
Increased capacity		34, 00,				
Major replacement and rehabilitation		80.5				

See footnotes at end of table.

Table A.4.—Methodology (Chapters V and VI)—Continued

				Projection method	- 73		
Item	Text table			Trend	2		
	_	Constant	Least squercs equation (t=years; 1958-59=1)	Index of determination	Standard	Adjusted equation	Other
Nonpublic:							
Increased capacity	35	35\$16,727.16					
Major replacement and rehabilitation	ñ	7.0%					
Estimated average charges per full-time							
undergraduate resident degree-credit							
student in institutions of higher							
education	49,50						
Tuition and required fees: 37	•		(Dollars)		(Dollars)	(Dollars)	
Public		>	y'=246.14+8.27(t)	0.97	3.210	v'=249.50+8.08(t)	
Universities		```	y'=286.32+15.65(t)	6.	11,818	v'=301.00+14.83(t)	
Other 4-year institutions		>	y'=203.03+13.05(t)	86:	4.194	y'=201.00+13.17(t)	
2-year institutions		>	y'=99.54+4.68(t)	æ	4.734	y'=104.50+4.42(t)	
Nonpublic		>	y'=1,(/10.43+54.36(t)	66:	12.372	v'=1,006,50+54,58(t)	
Universities		>	y'=1,208.51+63.53(t)	66:	16,918	v'=1,188.00+64,67(t)	
Other 4-year institutions		>	y'=964.24+48.99(t)	.91	34,219	y'=964.00+49.00(t)	
2-year institutions		>	y'=583.65+54.80(t)	1.00	7.425	y'=587,50+54,58(t)	
Public		` ~	y"=507.24-2.01(t)	.53	4.351	y'=507.00-2.00(t)	
Universities		>	y'=522.70+1.91(t)	.13	10.848	y'=516,50+2.25(t)	
Other 4-year institutions		>	y'=486.24-6.51(t)	8	5.206	y'=492.00-6.83(t)	
2-year institutions		>	y'=427,05-3.39(t)	.93	2.043	y'=427.50-3.42(t)	
Nanpublic		>	y'=562.73-2.04(t)	.57	3.966	y'=559.00-1.83(t)	
Universities		>	y'=594.03-0.45(t)	8	3,753	y'=596.50-0.58(r)	
Other 4-year institutions		>	y'=553.38-3.24(t)	.61	5,783	y'=547.50-2.92(t)	
2-vear institutions		>	V=492 19+5 88(t)	40	12 300	v'=401 5045 €2(+)	

Room:39 Public	y'=265.51+9.53(t) y'=286.51+10.53(t) y'=228.89+11.28(t) y'=169.11+9.72(t) y'=324.55+14.70(t) y'=299.03+13.55(t) y'=299.03+13.55(t)	4 8 4 4 6 8 6 6	5.376 6.154 6.342 5.342 5.288 11.736 4.975	y*=258.50+9.92(t) y*=282.50+10.75(t) y*=723.50+5.64(t) ' y*=174.50+9.42(t) y*=371.00+14.33(t) y*=375.00+19.00(t) y*=304.50+13.25(t)
----------------	--	-----------------	--	---

¹See method detailed for table 42 in footnotes 9 to 16 of this table (methodalogy table Ratio of nonpublic school teachers to public school trackers times public school

current expenditures. 35ee method detailed for table 44 in footnotes 19 and 20 of this table (methodology table A-4).

5See method devailed for table 45 in footnote 21 of this table (methodology table Ratic of nonpublic school teachers to public school teachers times public school capital outlay,

A-4). Gratic of nonpubile school teachers to public school teachers times public school

See method detailed for table 45 in footnotes 22 to 31 of this table (methodology table A-4).

See method ogsalled for table 48 in footnotes 33 to 36 of this table (methodology table A-4).

Oconstant percant = everage percent that everage daily attendance in public schools was Of K-12 enrollment in public schools in 1963-64 through 1968-69.
The Elementary and Secondary Education Act of 1965,

y = current expenditure allocated to pupil costs per pupil in average daily attendance. Average daily attendance times per-pupil cost for each year.

13 Current expenditure per pupil increased by \$70 per pupil in everage daily attendance. 14 Average daily attendance times per pupil cost augmented by \$70 per pupil.

Percent that expenditures for all programs were of expenditures allocated to pupil costs in 1967-68. Constant percent times total current expenditures allocated to pupil costs (excluding effects of act) = current expenditures for all programs (excluding Spercent that expenditures for all effects of act).

16 percent that expenditures for all programs were of expenditure allocated to pupil costs in 1967-68. Constant percent times total current expenditures allocated to pupil costs (including effects of act) = current expenditures for all programs (including effects of act). $1^{7}y = \text{averege annual selary of instructional staff in public elementary and secondary}$

schools.

Average annuel selary times number of instructional staff in public elementary and

19 y = number of rooms completed. 2. Projected number of rooms completed (tab'e 44) times capital outlay per room. secondary schools in each year.

21 $^{\prime}$ annual expenditure for interest in public elementary and secondary schools. $^{\prime}$ 22 $^{\prime}$ = expenditures for student education per full-time equivalent student in publicly controlled institutions of higher education. (y times projected number of full-time equivalent students in corresponding years (table 11, column 3) = projected expendi-

 23 tures for student education.) 23 γ = expenditures for student aducation per full-time-equivalent student in nonpublicly controlled institutions of higher education. (y times projected number of full-timeequivalent students in corresponding years (table 11, column 4) = projected expenditures for student education.;

Continued, p. 132.)

 $^{24}_{
m V}$ = total expenditures for organized research in publicly controlled institutions of

 $^{5}\rm{figher}$ education. $^{2}\rm{fy}$ = total expenditures for organized research in nonpublicly controlled institutions of $^{2}\rm{y}$ = total expenditures

higher education.

26 = expenditures for related activities as a percent of expenditures for student education in publicly controlled institutions of higher education. (Y times projected expenditures for stadent education in corresponding year = projected expenditures for related activities.)

expenditures for student education in corresponding years = projected expenditures $\mathbf{y}=\mathbf{e} \mathsf{x} \mathsf{penditures}$ for related activities as a parcent of $\mathbf{e} \mathsf{x} \mathsf{penditures}$ for student education in nonpublicly controlled institutions of higher education. (y times projected for related activities.)

28 y = expenditures for auxiliary enterprises as a percent of expenditures for student education in publicly controlled institutions of higher education. (y times projected expenditures for student education in corresponding years = projected expenditures for auxiliary enterprises.)

29 = expenditures for auxiliary enterprises as a percent of expenditures for student aducation in nonpublicly controlled institutions of higher education. (y times projected expenditures for student education in corresponding years = projected expenditures for auxiliary enterprises.

 $30_{\gamma} = \text{expenditures}$ for student aid as a percent of expenditures for student education in publicly controlled institutions of higher education, (y times projected expenditures for student education in corresponding years = projected expenditures for student $\mathbf{y} = \mathbf{e} \mathbf{x} \mathbf{p} \mathbf{e} \mathbf{n} \mathbf{d} \mathbf{r}$ for student aid as a percent of expenditures for student education in nonpublicly controlled institutions of higher education. (y times projected expenditures for student education in corresponding years = projected expenditures for student aid.)

32Constant percent = 1958-59 to 1968-69 average capital outiay from current funds as percent of capital outlay from all sources. (Projected annual capital citiay from all times constant percent = projected capital outlay from current sources (table 48) funds

institutions divided by average increase in number of full-time equivalent students in these institutions. (Constant dollars times annual increase in projected full-time. 33 Constant dollars = 1958-59 to 1963-69 average capital outlay by publicly controlled equivalent students = projected capital outlay for increased capacity. Result smoothed

by moving average.) 34Constant percent = estimated percent of value of plant replaced or rehabilitated each year, (Constant percent times projected value of plant in publicly controlled insti-

trolled institutions divided by average increase in number of full-time-equivalent students in these institutions. (Constant dollars times annual increase in projected full-time-equivalent students = projected capital outlay for increased capacity. Result tutions in each year = projected capital outlay for replacement and rehabilitation.) 35 Constant dollars = 1958-59 to 1968-69 average capital outlay by nonpublicly consmoothed by moving average.)

year. (Constant percent times projected value of plant in nonpublicly controlled insti-³⁶Constant percent = estimated percent of value of plant replaced or rehabilitated each utions in each year = projected capital outlay for replacement and rehabilitation.)

 $37_{\rm v}$ = average charge for tuition and required fees per full-time degree-credit student,

calculated separately for each category by type and control of institution. $3\delta_{\rm y}={\rm average}$ charge for board per full-time degree-credit student, calculated separately for each category by type and control of institution with t = 6 held constant to $39 \, y$ = avarage charge for room per full-time degree-credit student, calculated separately 1978-79 except public universities and nonpublic 2-year.

for each category by type and control of institution.

Estimation Methods

General statement

The basic data for projecting the following educational components were wholly or partially estimated for the years indicated. (A few items which were estimated and explained in the tables are not shown here.)

Degrees, bachelor's and master's—total, library science, social work—1958-59 to 1965-66 (tables 21-24).

Enrollment, first-time degree-credit, 1966 and 1967 (tables 14-16).

Enrollment, first-time degree-credit, by attendance status, 1958-67 (tables 14-16).

Enrollment, resident graduate, 1958-68 (table 17).

Enrollment, resident graduate, by attendance status, 1958-68 (table 17).

Enrollment, total degree-credit and total nondegree-credit, by attendance status and sex, 1966 and 1967 (tables 6-8).

Enrollment, total degree-credit, by attendance status, 1958-61 (tables 6-8).

Enrollment, total nondegree-credit, 1958-62 (tables 9-11).

Enrollment, total nondegree-credit, by attendance status, 1958-67 (tables 9-11).

Enrollment, total nondegree-credit, by attendance status and sex, 1966 and 1967 (tables 9-11).

Enrollment, undergraduate degree-credit, by attendance status, 1958-61 (tables 8, 18, 19).

Enrollment, undergraduate degree-credit, by attendance status, 1962-67 (tables 8, 18, 19).

Population, composite, 1958-78 (table B-2).

Unless otherwise specified, all educational components were estimated separately by type and control of institution and by sex of student. All estimates were adjusted to agree with any published totals. The need for making the estimates, the sources of data for estimating, and the methods used in making the estimates are described in the following sections.

Degrees, bachelor's and master's—total, library science, social work—1958-59 to 1965-69 (tables 21-24)

From 1958-59 to 1964-65, all master's degrees that were considered first-professional were reported as first-professional degrees. These were reported with bachelor's degrees in 1958-59 and 1959-60; the same degrees were reported separately as first-professional and later added to bachelor's degrees from 1960-61 to 1964-65. Most library science and social work master's degrees were in this category.

Beginning in 1965-66, all master's degrees whether or not they were considered first-professional were reported with master's degrees.

In 1969, in order to obtain comparable series in these two fields as well as for total master's degrees and total bachelor's and first-professional degrees, master's degrees in library science and in social work between 1960-61 and 1964-65 were subtracted from backelor's and first-professional degrees and added to master's degrees.

For the years 1958-59 and 1959-60, the percentages of total bachelor's and first-professional degrees in library science and in social work that were first-professional in 1960-61 were applied to total bachelor's and first-professional degrees in the corresponding fields in 1958-59 and 1959-60 to estimate the number of master's degrees. These master's degrees were then subtracted from bachelor's and first-professional degrees and added to master's degrees.

Enrollment, first-time degree-credit, by sex, 1966 and 1967 (tables 14-16)

Nondegree-credit first-time enrollment had never been reported prior to the time it was combined with degree-credit first-time enrollment in the 1966 and 1967 opening fall enrollment



reports, and there was available no hand tabulation of degree-credit or nondegree-credit first-time enrollment from the 1966 comprehensive survey. Therefore, degree-credit first-time enrollment was estimated by applying the percentages that were degree-credit and nondegree-credit obtained from the hand tabulation of the 1966 comprehensive degree-credit and nondegree-credit total enrollment. (See section on enrollment, total degree-credit and nondegree-credit, by attendance status and sex, 1966 and 1967, on page 135.)

Degree-credit first-time enrollment by sex was estimated from the 1965 opening fall enrollment report of degree-credit first-time enrollment by sex.

Enrollment, first-time degree-credit by attendance status, 1958-67 (tables 14-16)

Full-time first-time degree-credit enrollment was reported in the 1957, 1959, and 1961 comprehensive enrollment surveys and in the 1968 opening fall enrollment survey. (It was reported in the 1967 opening fall enrollment survey but was combined with full-time first-time nondegree-credit enrollment and was, therefore, unusable.)

The actual full-time percentages from the comprehensive surveys and the 1968 opening fall enrollment survey, together with interpolations of these percentages for the years 1958, 1960, and 1962-1967, were applied to first-time degree-credit opening fall enrollments to estimate full-time first-time degree-credit opening fall enrollment. All estimates were made separately for each category of enrollment by type and control of institution and by sex of student.

For projecting, the 1968 percentages in each of the above categories were rounded to 0.5, either upward or downward according to the trends, and were then held constant to 1978.

Enrollment, resident graduate, by sex 1958-68 (table 17)

Graduate enrollment was not reported in the opening fall enrollment survey until 1967. In both 1967 and 1968, in this survey, it was combined with first-professional enrollment as post-baccalaureate enrollment. In 1967, this postbaccalaureate enrollment excluded extension enrollment and, in 1968, it included extension enrollment.

To get an estimate of graduate enrollment in 1967 and 1968, the 1963 Migration Report was used. (This was the last year in which graduate enrollment was reported.) The 1963 report gave resident graduate, resident first-professional, and resident undergraduate enrollment separately, which supplied a base for separating postbaccalaureate opening fall enrollment into graduate and first-professional enrollment.

The years prior to 1967 were estimated from the comprehensive enrollment survey which gave resident graduate enrollment for the years 1957, 1959, and 1961, and from the 1963 migration survey. This procedure involved the following steps: (1) Calculation of the percentage that recident graduate enrollment was of resident and extension total degree-credit enrollment (in each sex, type, and control of institution category); (2) fitting a linear equation to the percentages in each category as a dependent variable with time as an independent variable; and (3) applying the linear equations obtained to the past and to the projected opening fall resident and extension enrollment data in corresponding enrollment categories. The above procedures produced estimates of resident graduate opening fall enrollments. These equations were updated by using the 1967 and 1968 estimates of resident graduate enrollment from opening fall postbaccalaureate enrollment described previously.

Enrollment, resident graduate, by attendance status, 1958-1968 (table 17)

Resident graduate enrollment by sex and attendance status was reported in the Comprehensive Enrollment Surveys of 1959 and 1961. Enrollment for advanced degrees by attendance status but not by sex was reported annually 1960-1965. Resident undergraduate degree-credit and



first-professional enrollments were reported by sex and attendance status in the Comprehensive Enrollment Surveys of 1957, 1959, and 1961, and in the Residence and Migration Study of 1963. Total resident and extension degree-credit enrollment was reported by sex and attendance status, 1962 through 1965. By balancing all of this information and by using interpolations and extrapolations, full-time resident graduate enrollment by sex was estimated for the years 1958 through 1966. The estimates for 1967 and 1968 were based on Enrollment for Advanced Degrees data, by sex and attendance status for 1966 through 1968, which became available in 1969.

Enrollment, total degree-credit and total nondegree-credit, by attendance status and sex, 1966 and 1967 (tables 6-8)

Degree-credit and nondegree-credit enrollments were estimated for both 1966 and 1967 because they were not reported separately in the 1966 and 1967 Opening Fall Enrollment surveys. To do this, use was made of an existing hand tabulation of degree-credit and nondegree-credit enrollment from the 1966 Comprehensive Survey of Enrollment. (Reports from this survey have never been edited or machine processed, so there is no official source for these data.)

The data had been tabulated for individual institutions by State and grouped into institutional type and control and student attendance-status categories. Data were missing for some institutions. These were estimated from 1965, 1966, and 1967 Opening Fall Enrollment surveys and added to the original tabulation. Degree-credit and nondegree-credit percentages for each category of enrollment in each State were calculated from the completer includation and applied to both the 1966 and 1967 total opening fall enrollment data in corresponding categories and States.

Enrollment by sex, which was not given in the 1966 comprehensive survey hand tabulation, was estimated in each category of estimated degree-credit enrollment for 1966 and 1967 from degree-credit enrollment by sex, student attendance status, and institutional type and control in the 1965 Opening Fall Enrollment survey.

Estimates of nondegree-credit enrollment by sex were estimated by taking differences in final enrollment categories between the reported total of degree-credit and nondegree-credit enrollments and the estimated degree-credit enrollment. (The 1965 survey did not give non-degree-credit enrollment by attendance status.) Arbitrary adjustments were made for a few categories with small numbers of enrollments for which the above procedure gave unreasonable results. (The estimates by sex were not made by State.)

Enrollment, total degree-credit, by attendance status, 1958-61 (tables 6-8)

Total degree-credit enrollment by attendance status was not included in the opening fall enrollment survey until 1962.

The years prior to 1962 were estimated from comprehensive enrollment survey data for 1957, 1959, and 1961. These reports gave undergraduate and first-professional enrollment by attendance status. The 1959 and 1961 reports gave graduate enrollment by attendance status. Estimated graduate enrollment by attendance status for 1957 was added to reported undergraduate and first-professional enrollment by attendance status in that year. The years 1958 and 1960 were interpolated.

Enrollment, total nondegree-credit, 1958-62 (tables 9-11)

Nondegree-credit enrollment was not reported in the opening fall enrollment survey until 1963. Data for the years 1958-62 were taken directly from the 1957, 1959, and 1961 comprehensive enrollment surveys and from interpulations of these data. Interpolations were effected by



computing the percentage that nondegree-credit enrollment was of population aged 18-21 years for the reported years 1957, 1959, and 1961; interpolating these percentages for unreported years 1958, 1960, 1962; and applying the interpolated percentages to the population aged 18-21 for corresponding years.

Enrollment, total nondegree-credit, by attendance status, 1958-67 (tables 9-11)

Nondegree-credit enrollment by attendance status was not reported in the opening fall enrollment survey prior to 1968. It was never reported in the comprehensive surveys of enrollment, 1957, 1959, and 1961. It was reported in the 1964 sample *survey* of full-time-equivalent enrollment and credit-hours *survey* (but not available by type and control of institution). (Prior to 1969, this percentage was held constant for estimating and projecting nondegree-credit enrollment by attendance status.)

In 1969, the percentages by sex and by control and type of institution, calculated from the 1968 opening fall enrollment survey, were prorated to equal 40 percent (1964 percent full time) for the total. The prorated percentages for each sex and for control and type of institution were applied as constants to calculate full time for the years 1958 through 1961. For the years 1962 through 1967, the percentages were interpolated between the 1961 and the actual 1968 percentages.

Enrollment, total nondegree-credit, by attendance status and sex, 1966 and 1967 (tables 9-11)

These estimates were a byproduct of the estimates for degree-credit enrollment and for degree-credit enrollment by attendance status and sex. They were similarly adjusted to 1966 and 1967 reported totals. (See section on enrollment, total degree-credit, and nondegree-credit, by attendance status and sex, 1966 and 1967, on page 135.)

Enrollment, undergraduate degree-credit, by attendance status, 1958-61 (tables 8, 18, 19)

Enrollment of resident undergraduate and first-professional degree-credit students by attendance status was reported in the comprehensive enrollment survey, 1957, 1959, 1961. Extension degree-credit enrollment (part time by definition) was also reported. The percentage that full-time resident undergraduate and first-professional enrollments were of total resident and extension degree-credit enrollments was calculated for 1957, 1959, and 1961; the percentages for 1958 and 1960 were interpolated; and the percentages thus arrived at for the years 1958 through 1960 were applied to total opening fall enrollment in corresponding years to obtain undergraduate opening fall enrollment by attendance status.

Enrollment, undergraduate degree-credit, by attendance status, 1962-67 (tables 8, 18, 19)

Undergraduate and first-professional degree-credit enrollment by attendance status was calculated by taking the difference between full-time opening fall degree-credit enrollment (reported 1962 to 1965 and in 1968 and estimated for 1966 and 1967) and estimated full-time graduate enrollment. Part-time undergraduate degree-credit enrollment was similarly computed.

In 2-year institutions, no computation was necessary.



Population, composite, 1958-78 (table B-2)

At the suggestion of Dr. Abbott L. Ferriss, then at the National Science Foundation, the 18-year-old population used previously for projecting degrees by level was replaced by a composite population. This population is not only more representative of the actual ages of the recipients but tends to smooth out any rough year-to-year changes in population.

For this purpose, the percentage distributions of ages at graduation from college four a by Laure M. Sharp in the 1958 survey "Two Years After the College Degree" was taken as base. These percentage distributions, kept separate for men and for women, were detruncated to avoid too many age classes and then restored to 100 percent by prorating, with the following

Percent of graduates

Age	Men	Women
21	10	21
2 2	43	61
23	15	8.
24	15	7
2 5	9	2
26	8	1

To obtain the composite population for a given year, the above percentages were applied to the corresponding age-specific populations in that year and the products summed.

The timelags for each level were kept the same as in previous projections. These timelags were 2 years from the bachelor's degree to the master's degree, and 3 years from the master's degree to the doctorate.

A comparison of the fits obtained from equations based on the 18-year-old population and from equations based on the composite population showed that the latter produced a higher index of determination.

Classification of Degrees by Field of Study

[Individual fields listed in 1967-68 report of bachelor's and higher degrees conferred]

I. Natural sciences and related professions

Mathematics¹

Mathematics

Statistics

Computer science and systems analysis

Data processing

Computer science

Systems analysis

Computer science and systems

analysis, other fields

analysis, field not identified Engineering science and systems

Physical sciences

Astronomy

Chemistry

Chemistry

Pharmaceutical chemistry

Earth sciences

Earth sciences, general²

Geology

Geophysics (including seismology)

See footnotes at end of list.

Oceanography

Earth sciences, other fields

Meteorology

Physics

Other physical sciences

Physical sciences, general

Metallurgy (excluding metallurgical

engineering)

Physical sciences, other fields

Physical sciences, field not identified

Biological sciences

Anatomy and histology

Bacteriology, virology, mycology, para-

sitology, and microbiology

Biochemistry

Biology, general

Botany

Botany, general

Plant pathology Plant physiology

Entomology

Physiology



Classification of degrees by field of study-Continued

Zoology, general	Science, general program (without major field) 1
Other biological sciences	116147
Premedical, predental, and preveter-	•
inary sciences	II. Social sciences, humanities, and related profes
Biophysics	gions
Cytology	Fine arts ¹
Ecology	Architecture
Embryology	Architecture ³
Genetics	City planning ⁴
Nutrition	
Optometry (preprofessional degree)	Music
Pathology (excluding plant pathology)	Music education
Pharmacology (excluding pharmacy)	Music including sacred music
Biological sciences, other fields	Speech and dramatic arts
Biological sciences, fields not iden-	Speech and hearing
tified Agriculture and forestry ¹	Speech and dramatic arts
	Other fine and applied arts
Animal science	Art education
Animal, dairy, and poultry science	Art, general
Other agriculture	Fine and applied arts, other fields
Agriculture, general	Fine and applied arts, field not iden
Agriculture, business	tified
Agronomy, field crops	Philosophy and religion ¹
Farm management (excluding agricul-	Philosophy
tural economics)	Scholastic philosophy
Fish and game, or wildlife manage-	Religious education, Bible
ment	Other religious fields
Food science	Religion, liberal arts curriculum, non
Horticulture (fruit and vegetable pro-	sectarian
duction)	Religion, other fields
International agriculture	Religion, field not identified
Ornamental horticulture	English and journalism ¹
Soil science	English
Agriculture, other fields	Journalism
Agriculture, field not identified	Foreign languages
Agricultural education	Latin, classical Greek
Forestry	French
Health professions ¹	German
Dentistry, D.D.S. and D.M.D. only ³	Russian and other Slavic languages
Medicine, M.D. only ³	Russian
Nursing and/or public health nursing	Other Slavic languages
Optometry (excluding preprofessional	Spanish
degrees)	Other languages and language program:
Osteopathy ³	Linguistics (including phonetics and
Pharmacy	semantics)
Public health	Italian
Veterinary medicine, D.V.M. only ³	Portuguese
Other health professions	Philology and literature of Romano
Chiropody or podiatry ³	languages
Dental hygiene	Other Germanic languages
Hospital administration	Philology and literature of Germani
Medical technology	languages
Occupational therapy	Arabic
Physical therapy, physiotherapy	Chinese
Radiologic technology	Hebrew
Clinical dental, medical, and veter-	Hindi and/or Urdu
inary medical sciences (advanced	Japanese
degrees only)	Foreign languages, other fields
Health professions, other fields	Foreign languages, field not identifie
Health professions, field not identified	Teaching English as a foreign languag

See footnotes at end of list.

Classification of degrees by field of study-Continued

General teaching fields Modern languages (combination of 3 Nursery, kindergarten education or more) Early childhood education Psychology.(Elementary education General psychology Secondary education (including junior Clinical psychology high school) Counseling psychology Combined elementary and secondary Social psychology education Rehabilitation counselor training4 Adult education Educational psychology General teaching fields, other fields Psychology, other fields Other education fields Psychology, field not identified Education specialist² Social sciences Educational administration, super-Anthropology vision, or finance **Economics** Agricultural economics Counseling and guidance Rehabilitation counselor training⁶ History, philosophy, and theory of Geography education, and comparative educa-History American studies, Americal civili-Curriculum and instruction zation. American culture Education, general Preprofessional bachelor's degrees International relations Other education fields Political science, government Education, field not identified Public administration Library science Sociology Social work, social administration, social Other social sciences welfare 1 Social sciences, general Other¹ Area studies, regional studies **Business and commerce** Forklore Accounting Foreign service programs (consular Other business and commerce and diplomatic service) Finance, banking Industrial relations Hotel and restaurant administra-Basic social sciences, other fields tion Applied social sciences, out or fields Marketing² Social sciences, field not identified Real estate and insurance² Education i Secretarial studies Physical education Transportation² Physical education (including non-Business and commerce, other teaching) fields Health education Business and commerce, field not Recreation education identified Industrial arts Business education, commercial Industrial arts education (nonvocaeducation tional) Distributive education, retail sell-Trade and industrial education (vocational) Home economics Other specialized teaching fields Home economics education Education of exceptional children Home economics, general Education of the partially sighted Child development, family relations Education of the blind Education of the mentally retarded Clothing, textiles Education of the emotionally dis-Foods and nutrition Institution management, institutional adturbed Education of the deaf ministration Home economics, other fields Education of the crippled Home economics, field not identified Education of exceptional children, Lave fe.L.B., J.D., or higher degrees) all other Military, naval, or air force science Specialized teaching fields, other Merchant marine (deck officer only) fields

See footnotes at end of list.



Classification of degrees by field of study-Continued

Military, naval, or air force science Theology Theology (first-professional degree)³ Theology (master's and doctor's degrees) Miscellaneous and unclassified fields Trade and industrial training

Arts, general program (without major field) Arts and sciences, general program Interarea and interfields of study Records management Fields of study not listed Field of study not identified

cluded.

Changes in Degree-Level Definitions

Prior to 1960-61

1960-61 through 1964-65

1965-66

BACHELOR'S DEGREES

Number of years of work not specified.

First-professional degrees included.

Number of years of work specified as less than 5.

First-professional degrees excluded.

Number of years of work specified as less than 6. First-professional degrees ex-

FIRST-PROFESSIONAL DEGREES

Included with bachelor's degrees,

5 or more years of work required. Includes first-professional degrees such as degrees in dentistry, law, medicine, and theology.

Includes master's degree such as degrees in business administration, hospital administration, law, library science, social work, and theology.

6 or more years of work required. Includes first-professional degrees such as degrees in dentistry, law, medicine, and theology. Excludes all master's degrees.

MASTER'S DEGREES

Includes all master's degrees except some considered firstprofessional.

Includes second-professional degrees below level of doctorate. Includes all master's degrees including those considered firstprofessional prior to 1965-66. Includes second-professional degrees below level of doctorate.

DOCTOR'S DEGREES

Includes Ph.D. in any field and such degrees as doctor of education, doctor of juridical science, and doctor of public health (preceded by professional degree in medicine or sanitary engineering).

No change.

No change.



Projected in tables 22, 23, and 24.

Added item, 1967-68 report. First-professional degree reported in Part A, 1967-68 report.

See also "Education."

Includes similar listing from education, 1967-68 report.

⁶See also "Psychology."

Glossary

Courses

Adult education courses

Group instruction in courses which are designed for, or attended principally by, persons who have terminated their formal education.

Degree-credit courses

Courses which carry credit toward a bachelor's or higher degree.

Individual lessons

Lessons in music, art, speech, etc.

Nondegree-credit courses

Courses extending not more than 3 years beyond high school and designed to prepare students for immediate employment in an occupation or cluster of occupations at the technical and/or semiprofessional level (engineering-related or non-engineering-related), or at the crafts-man-clerical level (artisans, skilled workers, and clerical workers).

Short courses

Courses that carry no credit toward a degree because of less than prescribed length.

Degrees

Bachelor's or first-level degrees

Lowest degree conferred by college, university, or professional school, requiring 4 or more years of academic work. For changes in Office of Education classification, see appendix A, "Changes in Degree-Level Definitions."

Doctor's degrees (except first-professional)

Highest academic degree conferred by a university; includes Ph.D. in any field; includes doctor of education, doctor of juridical science, and doctor of public health (preceded by professional degree in medicine or sanitary engineering).

First-professional degrees

Beginning 1965-66, Office of Education classification includes the following degrees only: Law (LL.B. or J.D. only); dentistry (D.D.S. or D.M.D. only); medicine (M.D. only); veterinary medicine (D.V.M. only); chiropody or podiatry (D.S.C. or D.P.); optometry (O.D.); osteopathy (D.O.); and theology (B.D. only). For changes in Office of Education classification, see appendix A, "Changes in Degree-Level Definitions."

Maşter's or second-level degrees

An academic degree higher than a bachelor's but lower than a doctor's. Beginning 1965-66, Office of Education classification includes all master's degrees. For changes in Office of Education classification, see appendix A, "Changes in Degree-Level Definitions."

Expenditures, elementary and secondary

Current expenditures, regular elementary and secondary day schools

Includes current expenditures for administration, instruction, plant operation and maintenance, fixed charges (retirement, social security, insurance, etc.), and other school services



(pupil transportation, food services, health services, attendance services, and miscellaneous school services).

Current expenditures, total

Includes current expenditures for regular elementary and secondary day school programs and current expenditures for other school programs including summer schools, adult education, community colleges, and community services.

Expenditures, total

Includes total current expenditures for all programs, capital outlay, and interest on school debt.

Expenditures, general

Capital outlay

An expenditure for land or existing buildings, improvement of grounds, construction of buildings, additions to buildings, and initial or additional equipment. Includes replacement and rehabilitation and installment or lease payments (excluding interest) which have a terminal date and result in the acquisition of property.

Constant dollars (1968-69)

Expenditure data which have been adjusted by means of price and cost indexes to equal the purchasing power of 1968-69 dollars. This eliminates inflationary factors and allows direct comparison between past years, current year (1968-69), and projected years.

Current dollars

Expenditure data which have not been adjusted to compensate for inflation. (Projection of unadjusted expenditure data has been limited to 2 years.)

Current expenditures

Any expenditure except for capital outlay and debt service. If accounts are kept on the accrual basis, current expense includes total charges incurred, whether paid or unpaid. If accounts are kept on the cash basis, it includes only actual disbursements.

Debt service

Includes payment for retirement of debt and for use of long-term loans (not repaid in the year in which made).

Interest

Any payment for use of money.

Expenditures, higher education

Current expenditures, total

The term used for total expenditure from current funds less expenditures from current funds which are used for capital outlay (about 16 percent).

Current fund expenditures, total

Includes expenditures for auxiliary enterprises, organized research, related activities, student aid, and student education. Approximately 16 percent of total current fund expenditures in institutions of higher education are defined as capital outlay expenditures.



Auxiliary enterprises.—Expenditures for services to students, faculty, or other staff for which a fee is charged that is directly related to, but not necessarily equal to, the cost of service. For example, dormitories, food service, and student stores.

Organized research.—Expenditures for all sponsored research and all separately budgeted research. Excludes expenditures for research carried on as part of the regular instructional services departmental research which is included with expenditures for student education.

Related activities.—Expenditures for activities which exist to provide instructional or laboratory experience for students and which incidentally create goods or services that may be sold on the campus or to the general public. Expenditures are incurred in addition to those necessary solely for the educational benefit of the students. Expenditures from current funds which could not be reported under "student education" or "organized research" are here included under "related activities."

Student aid.—Expenditures for assistance to students through scholarships, fellowships, and prizes. Recipients are not required to repay, either through services or monies.

Student education.—Expenditures for those components of educational and general expenditures which are most closely related to instruction. Includes instruction and research which is part of regular instructional services (departmental research), extension and public service, libraries, physical plant operation and maintenance, general administration, and other sponsored activities.

Expenditures, total

Includes expenditures for capital outlay, debt service including interest, and total current expenditures.

Student charges

Student charges include charges for tuition, required fees, room, and board. Required fees are those for matriculation, laboratory, library, health, etc. They do not include books. Student charges as reported in this circular are based on full-time, resident (in-State or in-District) students.

Schools

Elementary schools

Schools with teaching organized by grades, composed of a span of grades not above grade 8.

Independent nursery and kindergarten schools

Schools that offer nursery and/or kindergarten instruction only.

Other schools:

Other schools include residential schools for exceptional children (public and nonpublic), Federal schools for Indians, federally operated schools on Federal installations, and subcollegiate departments of public and private institutions of higher education.

Regular schools

School: for normal children that satisfy the requirements of the State education laws and offer at least one grade beyond kindergarten.

Residential schools for exceptional children

Residential schools for the handicapped (outside the regular public and private school systems) include public and private residential schools for the deaf, blind, mentally deficient, epileptic, and delinquent. (Most handicapped children are in special classes within the regular public and private school systems.)



Secondary schools

Schools with teaching organized by subject matter taught, composed of junior high and high schools.

Special schools

Special schools are schools not in the regular school system, such as trade schools or business colleges.

Students

Advanced-degree students

Students who have attained at least one standard degree and have been accepted as candidates for master's or doctor's degrees.

Extension students

Students who most commonly take instruction away from main campus; also students receiving on-campus instruction offered by an extension division.

First-professional students

See first-professional degrees.

First-time students

Freshmen not previously enrolled in any institution of higher education.

Full-time students

Students enrolled in courses with credits equal to at least 75 percent of the normal full-time semester course load.

Full-time-equivalent students

The estimated number of full-time students equal to a given number of part-time students. (For degree-credit students the percentage of part-time equal to full-time is estimated at 33 percent; for nondegree-credit students, 28 percent.)

Graduate students

Students who have attained at least one standard degree and are or might be candidates for a master's or doctor's degree (except first-professional).

Occupational students

See nondegree-credit courses.

Postbaccalaureate students

Students who have attained at least one standard degree and are or might be candidates for a first-professional, master's, or doctor's degree.

Resident students (enrollment)

Students who attend classes on a main campus or a branch campus. Students' living quarters (whether on or off campus) and their legal domicile (whether in-State or out-of-State) are irrelevant.

Resident students (student charges)

Students with legal domicile in-State or in-District.



Unclassified students

Students who are not candidates for a degree, diploma, certificate, or equivalent award, although taking courses in regular classes with other students.

Undergraduate students

Degree-credit or nondegree-credit students who have not received formal recognition as having completed the prescribed degree-credit or nondegree-credit requirements of an accredited institution of higher education.



ERIC

Full Text Provided by ERIC

APPENDIX B

Statistical Tables



Table B-1.--School-age population (U.S. Census projection series B, C, and D), ages 5, 6, 7, and 5-13 years: United States, 1958 to 19791

[Ages as of October 1, populations in thousands]

Yeer (fall)		Age 5			Age 6			Age 7			Age 5-13	
T WET (TAIL)	В	С	D	В	С	D	8	С	0	В	С	D
(1)	(2)	(3)	(4;	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
1958		2,802			3,694			3,632			30,932	
1959		3,897			3,789			3,721			32,074	
1960		3,964			3,887			3,811			33,664	
1961		4,012			3,972			3,894			33,461	
1962		4,100			4,020			3,979			34,111	
1963		4,119			4,107			4,026			34,781	
1964		4,132			4,125			4,113			35,446	
1965		4,167			4,136			4,130			36,035	
1966		4,248			4,174			4,143			36,619	
1967		4,165			4,255			4,181			36,997	
1968		4,103	• • • • •		4,172			4,262	••••		37,224	
					PF	ROJECT	ED					
1969		4,023			4,110			4,179			37,286	
1970		3,829			4,030			4,117			37,108	
1971	3,722	3,676	3,637		3,826			4,038		36,737	36,691	36,65
1972	3,879	3,672	3,498	3,730	3,684	3,644		3,843		36,499	36,246	36,03
1973	4,057	3,759	3,502	3,886	3,679	3,506	3,737	3,690	3,652	36,428	35,876	35,40
1974	4,240	3,852	3,512	4,064	3,766	3,509	3,893	3,686	3,513	36,502	35,563	34,75
1975	4,427	3,950	3,529	4,247	3,860	3,519	4,071	3,773	3,516	36,682	35,267	34,03
1976	4,608	4,054	3,560	4,434	3,958	3,536	4,254	3,866	3,526	37,127	35,158	33,43
1977	4,768	4,165	3,618	4,614	4,061	3,567	4,441	3,964	3,543	37,792	35,220	32,94
				4 774	4,172	3.625	4.621	4.069	3.574	38,689	35,479	22 646
1978	4,925	4,282	3,689	4,774	4,172	3,025	4,021	4,000	3,374	30,003	35,479	32,610

¹In projecting the number of children to be born, the Census Bureau uses the cohort-fertility method and several different assumptions as to completed fertility of women in the childbearing ages (15-45 years). These different series of population projections correspond roughly to the fol-

lowing asses options:
Series B average completed fertility rate of 3,100 children per 1,000 women presumes a modest drop from the levels of fertility experienced in the midfifties:

Series D average completed fertility rate of 2,450 children per 1,000 women presumes a substantial drop from the levels of fertility experienced in the midfifties;

Series C fertility rate of 2,775 children per 1,000 women is an average of rates B and D.

For a detailed explanation of the methods used by the Census and the implications of each assumption, see the following source, pages 1-49; U.S. Department of Commerce, Bureau of the Census, "Current Population Reports, Population Estimates: Projections of the Population of the United States, by Age, Sex, and Color to 1990, with Extensions of Population by Age and Sex to 2015," Series P-25, No. 381, Dec. 18, 1967.

SQURCES: Office of Education estimates are based on published and unpublished Bureau of the Census population data by age as of July 1. Population data used are consistent with projection data in U.S. Department of Commerce, Bureau of the Census "Current Population Reports: Population Estimates, Summary of Demographic Projections," Series P-25, No. 388, March 14, 1968.



Table B-2.—High school- and college-age population: United States, 1958 to 1979¹

[Ages as of October 1, populations in thousands]

Year (fall)	14-17		18	18	3-21		mposite pulation ²
Year (Tall)	Total	Men	Women	Men	Women	Men	Women
1958	10,867	1,210	1,188	4,508	4,471	1,066	1,073
1959	11,135	1,301	1,273	4,668	4,612	1,078	1,093
1960	11,411	1,411	1,378	4,897	4,827	1,103	1,121
1961	12,199	1,432	1,400	5,234	5,145	1,124	1,141
1962	12,951	1,405	1,371	5,480	5,377	1,153	1,174
1963	13,693	1,466	1,429	5,652	5,543	1,211	1,245
1964	14.215	1,698	1,650	5,817	5,702	1,293	1,348
1965	14.157	1,830	1,774	6,221	6,078	1,366	1,414
1966	14,371	1,790	1,734	6,612	6,447	1,384	1,396
1967	14.715	1,790	1,735	6,993	6,810	1,421	1,426
1968	15,135	1,818	1,762	7,259	7,062	1,516	1,564
			PF	OJECTED			
1969	15,538	1,872	1,814	7,234	7,036	1,679	1,757
1970	15,882	1,930	1,872	7,341	7,140	1,711	1,742
1971	16,187	1,982	1,926	7,513	7,314	1,759	1,762
1972	16,427	2,026	1,966	7,722	7,524	1,795	1,777
1973	16,599	2,060	1,998	7,927	7,720	1,843	1,822
1974	16,754	2,093	2,032	8,098	7,890	1,873	1,870
1975	16,908	2,120	2,060	8,252	8,041	1,920	1,926
1976	16,957	2,128	2,068	8,375	8,158	1,964	1,971
1977	16,932	2,142	2,080	8,457	8,245	2,011	2,008
1978	16,789	2,177	2,104	8,540	8,321	2,048	2,041
1979	16,371	2,180	2,100	8,624	8,387	2,086	2,075

All ages are in completed years except age 18, which has been calculated to nearest birthday. No fertility assumptions are used in this table because the persons included are already born.

were consistent with the other populations shown in this table. For further estimating details, see appendix A, "Estimation Methods."

SOURCE: Office of Education estimates are based on published and unpublished Bureau of the Census population data by age as of July 1. Population data used are consistent with projection data in U.S. Department of Commerce, Bureau of the Census "Current Population Reports: Population Estimates, Summary of Demographic Projections," Series P-25, No. 388, March 14, 1968.

the persons included are already born.

The composite population (used for projecting degrees for the first time in 1969) was derived by:
(1) prorating to 100 percent the detruncated percentage distribution of the ages of recipients of bachelor's degrees which had been found by Laure M. Sharp in the 1958 survey "Two Years After the College Degree," and (2) applying these percentages to corresponding age groups which

Table B-3.—Ratios of population series B and population series D to population series C, by age group: United States, 1971 to 1979¹

[Projections based on series C may be converted to series B and D projections by multiplying the series C projection by the ratio shown in this table for the corresponding age, series, and year]

(1) 1971	Age gro	up 5·17	Age gro	up 5-13	Age grou	up 14-17	
	For converting series C to series B	For converting series C to series D	For converting series C to series B	For converting series C to series D	For converting series C to series B	For converting series C to series D	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	
1971	1.00	1.00	1.00	1.00	1.00	1.00	
1972	1.00	1.00	1.01	.99	1.00	1.00	
1973	1.01	.99	1.02	.99	1.00	1.00	
1974	1.02	.98	1.03	.98	1.00	1.00	
1975	1.03	.98	1.04	.97	1.00	1.00	
1976	1.04	.97	1.06	.95	1.00	1.00	
1977	1.05	.96	1.07	.94	1.00	1.00	
1978	1.06	1.06 .95 1.09		.92	1.00	1.00	
1979	1.07	.93	1.11	.90	1.00	1.00	

 $^{^{1}}$ For definitions of series B, C, end D, end for sources of population date, see appendix B, table B-2.



Table B-4.—Enrollment in grades K-8 and 9-12 of regular day schools, with projections based on U.S. Census population projection series B, by institutional control: United States, fall 1958 to 1978¹

[In thousands]

Year	Т	otal public a nonpublic	nd		Public		Nonp	ublic (estin	nated) ²
(fall)	K-12	K-8	9-12	K-12	K-8 ³	9-12 ³	K-12	к-8	9-12
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
1958	39,581	30,504	9,077	34,081	26,004	8,077	5,500	4,500	1,000
1959	40,782	31,511	9,271	35,182	26,911	8,271	5,600	4,600	1,000
1960	42,181	32,492	9,689	36,281	27,692	8,589	5,900	4,800	⁴ 1,100
1961	43,364	32,895	10,469	37,464	28,095	9,369	5,900	⁴ 4,800	⁴ 1,100
1962	44,849	33,537	11,312	38,749	28,637	10,112	6,100	4,900	1,200
1963	46,487	34,304	12,183	40,187	29,304	10,883	6,300	5,000	⁴ 1,300
1964	47,716	35.025	12,691	41,416	30,025	11,391	6,300	5,000	⁴ 1,300
1965	48,473	35,463	13,010	42,173	30,563	11,610	6,300	⁴ 4,900	⁴ 1,400
1966	49,339	36,045	13,294	43,039	31,145	11,894	6,300	4,900	1,400
1967	49,892	36,242	13,650	43,892	31,642	12,250	6,000	4,600	1,400
1968	50,761	36,640	14,121	44,961	32,240	12,721	5,800	⁵ 4,400	⁵ 1,400
				PROJEC	CTED ⁶				
1969	51,400	36,800	14,600	45,700	32,500	13,200	5,700	4,300	1,400
1970	51,600	36,600	15,000	46,000	32,400	13,600	5,600	4,200	1,400
1971	51,800	36,300	15,500	46,300	32,200	14,100	5,500	4,100	1,400
1972	51,800	36,000	15,800	46,400	32,000	14,400	5,400	4,000	1,400
1973	52,200	36,000	16,200	46,800	32,000	14,800	5,400	4,000	1,400
1974	52,600	36,100	16,500	47,200	32,100	15,100	5,400	4,000	1,400
1975	53,000	36,300	16,700	47,600	32,300	15,300	5,400	4,000	1,400
1976	53,600	36,800	16,800	48,200	32,800	15,400	5,400	4,000	1,400
1977	54,300	37,400	16,900	48,900	33,400	15,500	5,400	4,000	1,400
1978	55,100	38,300	16,800	49,700	34,300	15,400	5,400	4,000	1,400

Does not include independent nursery schools and kindergartens, residential schools for exceptional children, subcollegiate departments of institutions of higher education, Federal schools for Indians, schools on Federal installations, and

rates of all other public school grades will follow the 1958-68 trends with the restriction that they cannot exceed 100 percent; and (5) enrollment in grades K-8 in regular nonpublic day schools will decrease to 1972 and then remain constant to 1978; grades 9-12 will remain constant at the 1968 level.

NOTE: Data are for 50 States and the District of Columbia for all years. Secause of rounding, detail may not add to totals.

SOURCES: Enrollment data and estimates are based on U.S. Department of Health, Education, and Welfare, Office of Education publications: (1) "Statistics of Public Schools," fall 1964 through 1968; (2) "Enrollment, Teachers, and Schoolhousing," fall 1957 through 1963; (3) "Statistics of State School Systems," blennially, 1957-58 through 1961-62; (4) "Statistics of Nonpublic Elementary and Secondary Schools, 1965-66"; (5) "Nonpublic School Enrollment in Grades 9-12, Fall 1964, and Graduates, 1963-64"; (6) "Statistics of Nonpublic Elementary Schools, 1961-62"; and (7) "Statistics of Nonpublic Elementary Schools, 1960-61."



other schools not in the regular school system.

Estimates revised spring 1968 on basis of 1965
Office of Education survey.

³ Fall enrollment in public schools not reported by grade prior to 1962; grade breakdown for years 1958 through 1961 estimated from school year enrollment.

Actual data from Office of Education surveys.

Data from the 1968 survey of nonpublic schools were received too late for inclusion in this table.

⁶The projection of fall enrollment in regular day schools is based on the following assumptions: (1) Enrollment rates of the 5-, 6-, and 7-year-old population in public school kindergarten and grades 1 and 2 will follow the 1958-68 trends; (2) the retention rate of public school grade 7 from grade 6 will remain constant at 104 percent from 1972 through 1978; (3) the retention rates of public school grade 9 from grade 8 will follow the 1958-68 trend with the restriction that the rate cannot exceed 105 percent; (4) the retention

Table B-5.—Enrollment in grades K-8 and 9-12 of regular day schools, with projections based on U.S. Census population projection series D, by institutional control: United States, fall 1958 to 1978¹

[In thousands]

Year (fall)	Т	otal public a nonpublic			Public		Nön	oublic (estin	nated) ²
110117	K-12	K-8	9-12	K-12	K-8 ³	9-123	K-12	K-8	9-12
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
1958	39,581	30,504	9,077	34,081	26,004	8,077	5,500	4,500	1,000
1959	40,782	31,511	9,271	35,182	26,911	8,271	5,600	4,600	1,000
1960	42,181	32,492	9,689	36,281	27,692	8.589	5,900	4.800	41,100
1961	43,364	32,895	10,469	37,464	28.095	9,369	5,900	⁴ 4,800	41,100
1962	44,849	33,537	11,312	38,749	28,637	10.112	6,100	4,900	1,200
1963	46,487	34,304	12,183	40,187	29,304	10,883	6,000	5.000	41,300
1964	47,716	35,025	12,691	41,416	30,025	11,391	6,300	5,000	41,300
1965	48,473	35,463	13,010	42,173	30,563	11,610	6,300	⁴ 4,900	41,400
1966	49,339	36,045	13,294	43,039	31,145	11,894	6.300	4,900	1,400
1967	49,892	36,242	13,650	43,892	31,642	12,250	6,000	4,600	1,400
1968	50,761	36,640	14,121	44,961	32,240	12,721	5,800	⁵ 4,400	⁵ 1,400
				PROJEC	TED ⁶		_		
1969	51,400	36,800	14,600	45,700	32,500	13,200	5,700	4,300	1,400
1970	51,600	36,600	15,000	46,000	32,400	13,600	5,600	4,200	1.400
1971	51,700	36,200	15,500	46,200	32,100	14,100	5,500	4,100	1,400
1972	51,500	35,700	15,800	46,100	31,700	14,400	5,400	4,000	1,400
1973	51,400	35,200	16,200	46,000	31,200	14,800	5,400	4,000	1.400
1974	51,100	34,600	16,500	45,700	30,600	15,100	5,400	4,000	1,400
1975	50,700	34,000	16,700	45,300	30,000	15,300	5,400	4,000	1,400
1976	50,400	33,600	16,800	45,000	29,600	15,400	5,400	4,000	1,400
1977	50,100	33,200	16,900	44,700	29,200	15,500	5,400	4,000	1,400
1978	49,800	33,000	16,800	44,400	29,000	15,400	5,400	4,000	1,400

Does not include independent nursery schools and kindergartens, residential schools for exceptional children, subcollegiate departments of institutions of higher education, Federal schools for Indians, schools on Federal installations, and other schools not in the regular school system.

2 Estimates revised spring 1968 on basis of 1965 Office of Education survey.

Actual data from Office of Education surveys.

low the 1958-68 trends with the restriction that they cannot exceed 100 percent; and (5) enrollment in grades K-8 in regular nonpublic day schools will decrease to 1972 and then remain constant to 1978; grades 9-12 will remain constant at the 1968 level.

NOTE: Data are for 50 States and the District of Columbia for all years. Because of rounding, detail may not add to totals.

SOURCES: Enrollment data and estimates are based on U.S. Department of Health, Education, and Weifare, Office of Education publications: (1) "Statistics of Public Schools," fall 1964 through 1968; (2) "Enrollment, Teachers, and Schoolhousing," fall 1957 through 1963; (3) "Statistics of State School Systems," blennially 1957-58 through 1961-62; (4) Statistics of Nonpublic Elementary and Secondary Schools, 1966-66;" (5) "Nonpublic School Enrollment in Grades 9-12, Fall 1964, and Graduates, 1963-64;" (6) "Statistics of Nonpublic Elementary Schools, 1961-62;" and (7) "Statistics of Nonpublic Elementary Schools, 1960-61."



³ Fall enrollment in public schools not reported by grade prior to 1962; grade breakdown for years 1958 through 1961 estimated from school year enrollment.

S Data from the 1968 survey of nonpublic schools were received too late for inclusion in this table.

The projection of fall enrollment in regular day schools is based on the following assumptions: (1) Enrollment rates of the 5-, 6-, and 7-year-old population in public school kindergarten and grades 1 and 2 will follow the 1958-68 trends; (2) the retention rate of public school grade 7 from grade 6 will remain constant at 104 percent from 1972 through 1978; (3) the retention rates of public school grade 9 from grade 8 will follow the 1958-68 trend with the restriction that the rate cannot exceed 105 percent; (4) the retention rates of all other public school graduates will follow rates of all other public school graduates will follow the 1958-68 trend with the restriction that the rate

Table B-6.—Total degree-credit enrollment in all institutions of higher education, by sex: United States and outlying areas, fall 1958 to 1978¹

[Resident and extension enrollment]

		Degree-credit enrollm	ent
Year (fall)	Total	Men	Women
(1)	(2)	(3)	(4)
1958	3,258,556	2,110,426	1,148,130
1959	3,402,297	2,173,797	1,228,500
1960	3,610,007	2,270,640	1,339,367
1961	3,891,230	2,423,987	1,467,243
1962	4,206,672	2,603,072	1,603,600
1963	4,528,516	2,789,527	1,738,989
1964	4,987,867	3,051,761	1,936,106
1965	5,570,271	3,396,574	2,173,697
19662	5,930,000	3,577,000	2,353,000
1967 ²	6,396,000	3,824,000	2,572,000
1968	6,983,093	4,145,523	2,837,570
		PROJECTED ³	-
1969	7,143,000	4,214,000	2,929,060
1970	7,436,000	4,361,000	3,076,000
1971	7,806,000	4,549,000	3,256,000
1972	8,223,000	4,765,000	3,459,000
1973	8,642,000	4,982,000	3,660,000
1974	9,038,000	5,182,000	3,855,000
1975	9,421,000	5,376,000	4,045,000
1976	9,774,000	5,552,000	4,222,000
1977	10,090,000	5,703,000	4,386,000
1978	10,405,000	5,858,000	4,547,000

Beginning in 1966, some students previously reported as nondegree-credit are included with degree-credit enrollment.

The estimates for 1966 and 1967 differ from the estimates published in the 1968 edition of "Projections of Educational Statistics" because of revisions in the 1966 comprehensive data for 4-year institutions.

Veterans attending college through aid provided by Veterans' Readjustment Benefits Act of 1966

are included in the trend projections.

For further methodological details, see appendix A, table A-1.

NOTE: Secause of rounding, detail may not add to totals.

SOURCES: Enrollment data and estimates are based on U.S. Department of Health, Education, and Welfare, Office of Education circulars: "Opening (Fall) Enrollment in Higher Education," annually, 1958 through 1968.

Population on which projections are based is shown in appendix B, table B-2.



degree-credit enrollment.

The breakdown between degree-credit and nondegree-credit enrollment is estimated. See appendix A, "Estimation Methods."

The projection of total degree-credit enrollment in all institutions by sex and institutional control is based on the assumption that enrollment in these institutions expressed as a percentage of population aged 18-21 years will follow the 1958-68 trend to 1978 in each enrollment category.

Table B-7.—Earned degrees, by level and sex of student: United States and outlying areas, 1958-59 to 1978-79

Year	8achelor's and first-professional degrees			Ma	ster's degr	ees ¹		's degrees professio	
	Total	Total Men Women		Total	Total Men		Total	Men	Women
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
1958-59	382,157	253,896	128,261	72,578	48,380	24,198	9,360	8,371	989
1959-60	391,608	254,435	137,173	77,778	52,006	25,772	9,829	8,801	1,028
1960-61	398,248	254,658	143,590	81,805	55,400	26,405	10,575	9,463	1,112
1961-62	416,886	260,858	156,028	88,488	59,862	28,626	11,622	10,377	1,245
1962-63	446,453	273,300	173,153	95,557	64,394	31,163	12,822	11,448	1,374
1963-64	497,597	298,262	199,335	105,629	70,563	35,066	14,490	12,955	1,535
1964-65	533,925	318,088	215,837	117,200	77,793	39,407	16,467	14,692	1,775
1965-66	555,613	331,122	224,491	140,772	93,184	47,588	18,239	16,121	2,118
1966-67	594,862	355,300	239,562	157,892	103,179	54,713	20,621	18,164	2,457
1967-68	671,591	392,830	278,761	177,150	113,749	63,401	23,091	20,185	2,906
1968-69 ³	760,000	437,000	324,000	189,000	121,800	67,200	26,100	22,800	3,300
				PROJE	CTED4				
1969-70	778,000	447,000	331,000	211,900	135,400	76,500	29,000	25,400	3,600
1970-71	807,000	461,000	345,000	244,800	155,900	88,920	30,800	27,100	3,800
1971-72	832,000	473,000	359,000	256,200	165,000	91,300	33,200	29,200	4,000
1972-73	866,000	487,000	379,000	271,200	175,800	95,300	37,200	32,600	4,600
1973-74	897,000	497,000	400,000	285,200	185,800	99,300	43,100	37.700	5,400
1974-75	935,000	512,000	423,000	302,300	197,300	104,900	45,600	40.00C	5,600
1975-76	971,000	526,000	445,000	318,300	207,200	111,100	48,700	42,900	5,900
1976-77	1,006,000	540,000	465,000	336,900	219,200	117,700	51,600	45.500	6,100
1977-78	1,038,000	553,000	485,000	355,200	231,200	124,000	55,000	48,400	6.500
1978-79	1,065,000	565,000	500,000	369,200	240,700	128,500	57,000	50,200	6,800

¹8eginning in 1965-66, all master's degrees, whether considered first-professional or not are reported as master's degrees rather than firstprofessional degrees.

The following specified degrees are reported as first professional: Dentistry (D.D.S. or D.M.D.), law (LL.B. or J.D.), medicine (M.D.), theology (8.D.), veterinary medicine (D.V.M.), chiropody or podiatry (D.S.C. or D.P.), optometry (O.D.), and osteopethy (D.O.).

to totals.

For further methodological details, see appendix A, table A-2. NOTE: Because of rounding, detail may not add

SOURCES: Degree data from U.S. Department of Health, Education, and Welfare, Office of Education publications on "Earned Degrees Conferred by Institutions of Higher Education," 1958-59 through 1967-68.

²Doctor's degrees include the Ph.D. in any field as well as such degrees as doctor of education, doctor of juridical science, and doctor of public health (preceded by professional degree in medicine or sanitary engineering). They exclude degrees defined as first-professional, such as doctor of jurisprudence, doctor of medicine, doctor of dental surgery, doctor of veterinary medicine, and doctor of divinity. ³Estimated.

⁴The projection of earned degrees is based on the assumption that the percentage of degrees to population for each level and sex will continue the 1958-59 to 1967-68 trends. (A composite population representative of age at graduation was used as base for projecting, with a timelag of 2 years from the bachelor's degree to the master's degree; and of 3 additional years from the master's degree to the doctor's degree. For population used and estimation details, see appendix B. table 8-2.)

Table B-8.—Constant dollar index

[1968-69 = 100]

July to June	Consumer price index ¹	Construction cost index 2	July to Jura	Consumer price index 1	Construction cost index
 1958-59	81.312	68.543	1966-67	92.394	87.733
1959-60	82.460	70.625	1967-68	95.469	92.403
1960-61	83.533	72.313	1968-69	100.000	100.000
1961-62	84.379	74.001			 -
1962-63	85,400	76.027	:	STIMATED3	
1963-64	86.601	78.278			
1964-65	87.716	80.304	1969-70	102.955	104.712
1965-66	89.615	83.118	1970-71	105.909	109,424

The monthly indexes were avereged on a July to June basis to correspond with the school year and converted to 1968-69 = 100. The 1957-59 = 100 index number for 1968-69 was estimated at 124.142.

SOURCES: The Consumer Price Index, prepared by the Bureau of Labor Stetistics, U.S. Department of Labor, and the American Appraisal Company Construction Cost index, published in Construction Review by the U.S. Department of Commerce.



The monthly indexes were averaged on a July to June basis to correspond with the school year and converted to 1968-69 = 100. The 1957-59 = 100 index number for 1968-69 wes estimated at 148.083.

³ Estimated on 5-year trend, 1964-65 to 1968-69, projected 10 years and fitted to 1968-69 estimate.

Table B-9.—Estimated receipts of regular and "other" educational institutions, by institutional revel and control, and by source: United States, 1957-58 to 1965-66 and 1966-67

control band forman		Amoun	ıt, in billion	Amount, in billions of current dollars	dollars				Percent	ent		
	1957-58	1959-60	1961-62	1963-64	1965-66	1966-67	1957-58	1959-60	1961-62	1963-64	1965-66	1966-67
3	(2)	(3)	(5	(2)	(9)	3	(8)	6)	(10)	(33)	(12)	(13)
All favels: Total public and nonpublic	\$21.4	\$25.4	\$30.6	\$36.6	\$46.9		100.0	100.0	100.0	100.0	100.0	
Federal	4.	1.9	2.5	3.2	5.0		9	7.	ć	0	904	
State	6.3	7.5	0.6	10.9	13.7		2 6	. 6 	70 Q	/ o o	0 6	
Local	9.8	8.6	11.2	12.8	15.6		40.2	38.6	36.6	35.0	33.3	
All other	5.1	6.2	7.9	9.7	12.6		23.8	24.4	25.8	26.5	26.9	
Total public	17.2	20.4	24.0	28.4	36.7		100.0	100.0	100.0	100.0	106.0	
Federal	1.0	4.	1.7	2.0	3.6		5.8	6.9	7.1	7.0	Ø	
State	6.3	7.5	8'6	10.8	13.6		36.6	36.8	37.1	38.0	37.1	
Local	8.6	8.6	11.2	12.8	15.6		50.0	48.0	46.7	45.1	42.5	
All other	.	1.7	2.2	2.8	3.9		9.7	8.3	9.1	6.6	10.6	
Total nonpublic	4.2	5.0	9.9	8.2	10.2		100.0	100.0	100.0	100.0	100.0	
Federal	લ	rd,	αį	1.2	1.4		9.5	10.0	12.1	14.6	13.7	
State	C-C	££	(²).1	., (²)	(2)		ર જ	ઈર્જ	1.5 3.5	1.2	1.0	
All other	3.8	4.5	5.7	6.9	8.7		90.5	90.0	86.4	84.2	85.3	
Elementary and secondary: Total public and nonpublic	15.6	18.4	21.5	24.7	31.0		100.0	100.0	100.0	100.0	100.0	٠
Federal	ο̈́	αģ	q	o;	2.0		3.9	4.3	4.2	9	ď	
State	4.8	5.8	6.8	8.1	66		30.8	31.5	31.6	32.8	31.9	
Local	8.4	0) (0	1.0	12.5	15.2		53.8	52.2	51.2	20.6	49.0	
All other	. 8.	2.2	2.8	3.2	3.9		11.5	12.0	13.0	13.0	12.6	

				100.0	18.9 22.8	5.8	25.5	100.0	16.7	37.0	4.4	41.9	
100.0	7.4 36.4 55.9 .3	100.0	100.0	100.0	18.9	2.5	54.9	100.0	17.1	38.5	4.1	40.3	
100.0	4.2 37.5 57.9	100.0	100.0	100.0	20.1	2.6	53.3	100.0	16.7	3 8.4	4.3	39.6	
100.0	4.8 36.2 58.7 .3	100.0	100.0	100.0	18.3 24.9	2.6	54.2	100.0	15.5	40.7	4.2	39.6	
100.0	4.9 35.6 59.2 .3	100.0	100.0	100.0	16.2 25.1	2.8	55.9	100.0	14.7	41.1	4.6	39.6	
100.0	4 & & & & & & & & & & & & & & & & & & &	100.0	100.0	0.001	13.8	3.1	56.1	100.0	12.8	43.3	5.0	38.9	
				17.6	3.4	ιċ	9.7	10.6	8.	3.9	ຜຸ	4.4	
27.2	2.0 9.9 15.2	88 : : 80 : :	3.8.	15.9	0.8	4.	8.7	9.5	1.6	3.7	4.	3.8	
21.6	e. 8.1 72.5 1.	3.1	3.1	11.9	2.3	ų	6.5	8.9	1.1	2.7	ú	2.7	
18 .8	6.8 0.11 1.0	2.7	2.7	1.6	1.6	1 73	£.	5.2	œ	2.1	ĸ	2.1	
16.3	8. 8. 9. L.	2.1	2.1	7.0	1.1	?	4.0	F	Æ	1.7	Сİ	1.6	
13.8	6.8 4.8 8.4 (²)	8	1.8	5.8	εć π	9 79	3,3	3.4	4	7.5	ij	1.3	
Total public	Federal	Total nonpublicFederal	Local	Institutions of higher education: Total public and nonpublic	Federal	tocal	All other	Total public	हत्त्व <u>स</u>	et et et	- Contraction of the contraction	All other	See foornotes at end of table.

Table B-9.—Estimated receipts of regular and "other" educational institutions, by institutional level and control, and by source: United States, 1957-58 to 1965-66 and 1966-671—Continued

Level, control, and source		Amour	Amount, in billions of current dollars	s of current	dollars				Perc	Percent		
-	1957-58	1959-60	1961-62	1961-62 7963-64	1965-66	1966-67	1957-58	1959-60	1961-62	1963.64	1965.66	
(3)	(2)	(3)	(4)	(9)	(9)	2	(8)	(6)	(10)	(11)		(13)
Total nonpublic	2.4	2,9	3.9	5.1	4.0	20	5	9				
Federal	4	u	(,		?	2	9	100.0	100.0	100.0	100.0
State Local	₄ €€		s - €		<u>.</u>	1.6	14.0 1.2	17.0	20.4	22.9	21.6	22.3
All other	2.0	2.4	3.0	3.8	() 6,4	(*) 5.3	84.6 2. 2	1. 2.18	2. 0.	, i	<u>.</u> 7	4 4

Includes estimates for "other" elementary and secondary schools such as residential schools for exceptional children, Federal schools for Indians, and federally operated elementary and secondary schools on posts. The annual receipts of "other" elementary and secondary schools was follows:

 Years
 Public, Millions
 Nonpublic

 1967-58 and 1959-60
 \$100
 Less than \$50 million.

 1961-62
 \$200
 Less than \$50 million.

 200
 Less than \$50 million.
 \$100 million.

 3 Less than 0.05 percent.
 \$100 million.

NOTE: Data are for 50 States and the District of Columbia for all years. Receipය ະ clude revenue and nonrevenue receipts, current and plant-fund receipts, p

ceeds of loans, less transfers of funds which would result in duplication, and less repayment of Inans. All receipts and deductions concerning loans are included in "all other" sources. Deduction of transfers was made from data in "all other" sources.

SCURCE: It we're use from 11% Department of Health, Education, and Welfare, Office of Education, and Welfare, 1977; etc. Education (1) "Statistics of State School Systems," 1957-56, 1961-62, 1962-34, and 1965-66; (2) "Statistics of Public School, 1914, 1965, 1966, 1967, and 1968; (3) "Financial Statistics of Tible Education," 1907, 38, 1959-60, 1961-62, 1963-64, 1965-66, and 1960-67; (4) "Digest of Educational Statistics," 1968; and unpublished data in the U.S. Office of Education.

Table B-10.—Federal funds for education and related activities: Estimated obligations for fiscal years 1962 to 1967; and estimated outlays for fiscal years 1968 to 1970

ē
₽
용
ŏ
ş
Ē
3
몵
Ξ
=

			New	New obligational authority	uthority			Outlay	
Type of support, level, and program area	1962	1963	1964	1965	1966	1967	1968	1969	1970
(1)	(2)	(9)	(4)	(5)	(9)	(2)	(8)	(6)	(10)
		PARI	1. Federal Fu	PART I. Federal Funds Supporting Education in Educations Institutions	g Education in	Educational	Institutions		
Total grants and loans	\$2,173,700	\$2,507,600	\$2,749,300	\$3,908,700	\$6,779,578	\$8,364,855	\$7,771,496	\$8,323,454	\$9,107,894
Grants, total	1,853,200	2,111,700	2,350,500	3,379,600	6,167,878	7,623,272	7,168,215	7,754,427	8,559,128
Elementary-secondary education	555,100	600,400	999	942,900	2,480,078	3,037,637	2,967,004	2,765,875	3,009,761
School assistance in federally affected areas Eccanic opportunity programs	304,900 53,000	330,300	323,100 67,000	407,600 123,500	433,900 404,300	469,137 721,257	506,372 628,533	404,703 539,124	454,938 572,874
National Defense Education Act - equipment, guidance	59,300 4,300	58,700 4,700	92,900 5,200	90,900 6,500	104,400 173,100	109,200 273,551	109,009 280,481	89,545 250,541	68,601 268,341
Assistance for educationally deprived children Geprived children Geprived Corps	4,000 26,400 40,500 43,500 14,800 4,400	6,800 26,300 45,300 44,600 17,700 5,100	5,100 24,900 61,500 48,600 32,600	127,700 80,500 51,500 50,200 4,500	959,000 6,500 184,678 86,100 54,100 68,800	1,057,455 11,324 194,636 87,533 50,173 1,294 5,108	1,056,983 16,019 185,224 68,220 52,294 58,286 3,200 2,383	1,049,625 19,000 172,473 112,983 56,484 64,708 3,580 3,109	1,151,444 24,243 180,200 141,711 58,607 78,166 3,900 6,736
	•								

See footnotes at end of table,

Table B-10.—Federal funds for education and related activities: Estimated obligations for fiscal years 1962 to 1967; and estimated outlays for fiscal years 1968 to 1970—Continued

-
- 22
₹
×
~
7
-
Ö
5
ĸ
2
9
#
Ė
=
_

Туре of support, level, and program area		•	New ol	New obligational authority	hority			Outlay	
	1962	1963	1964	1965	1966	1967	1968	1969	1970
(1)	(2)	(3)	(4)	(2)	(9)	6	(8)	(6)	(10)
Higher education	1,210,300	1,397,800	1,480,400	2,052,600	2,830,400	3,634,494	3,230,030	3,754,515	4,094,908
Basic research in U.S. educational institutions proper Research facilities Training grants Fellowships and traineeships Facilities and equipment Other institutional support Other student assistance Other higher education assistance	602,900 121,800 196,000 103,900 37,100 33,000 103,900	691,600 157,900 234,600 143,000 41,000 69,900 16,400	698,600 133,500 261,200 181,800 56,100 69,500 62,300	784,900 191,700 282,400 196,900 384,100 93,400 100,400	940,300 194,000 365,500 264,900 668,900 163,800 214,200 18,800	1,032,823 250,568 363,608 350,162 822,203 169,925 590,586	1,044,059 184,591 381,116 320,303 5:19,382 139,637 608,883 2,059	1,153,269 268,775 432,043 377,270 530,763 197,567 787,414	91,153,000 9269,000 462,762 433,799 634,561 247,687 872,869 21,230
Vocational-technical and continuing education (not classifiable by level)	87,800	113,500	203,800	364,100	857,400	951,141	971.181	1.234.037	1 454 450
Vocational-technical education 10 Economic opportunity programs 11 Veterans' education	27,700 6,900 49,900 400 2,900	74,700 8,000 29,000 400 1,400	151,900 9,100 25,100 1,900 5,800	291,900 72,400 10,300 1,500 8,000	432,800 385,100 6,300 19,200	470,752 345,823 54,000 29,200 28,649	418,345 441,923 79,645 28,701	479,375 586,993 122,741 40,026	555,101 704,013 140,969 44,289
and the Humonities Other 13						11,989 10,728	2,567	4,902	10,087

Loans, total (higher education)	320,500	395,900	398,800	529,100	611,700	741,583	603,281	569,027	548,766
Student loan program, National Cefanse Education Act ¹⁴	74,600 245,900	90,700 305,2 00	111,300 287,500	160,100 369,000	235,900	237,954	226,303 376,978	260,752 308,275	293,939 254,827
		PAR	T II. Other F	PART II. Other Federal Funds for Education and Related Activities	or Education a	and Related A	ctivities		
Applied research and development 16	754,700	805,700	906,300	952,300	1,026,600	1,088,150	1,174,412	1,287,641	91,288,000
School lunch and milk programs	366,900	379,300	411,700	507,500	421,900	448,005	543,845	622,913	653,466
Training of Federal personnel	1,177,500	1,279,600	1,370,400	1,577,900	1,706,700	1,537,399	1,138,333	1,240,164	1,320,807
Military academies	74,000	75,700	77,400 1,245,000	105,100	137,200 1,487,900	(¹⁷) 1,442,950	(¹⁷) 1,065,069	(¹⁷) 1,154,938	(¹⁷ ; 1,224,503
Civilian education and training in non-Federal facilities	31,500	31,900	48,000	73,700	81,600	94,449	73,264	85,226	96,304
Library services	22,200	23,900	25,300	82,900	86,300	141,381	136,099	159,098	154,602
Grants to public libraries	6,900 15,300	7,400 16,500	7,500	54,900 28,000	55,000 31,300	76,000 65,381	62,017 74,082	32,236 96,862	63,207 91,395

See footnotes at end of table.

Table B-10.—Federal funds for education and related activities: Estimated obligations for fiscal years 1962 to 1967; and estimated outlays for fiscal years 1968 to 1970—Continued

[In thousands of dollars]

TVD8 of Silonom level and menoran			New ot	New obligational authority	ority			Outlay	
	1962	1963	1964	1965	1966	1967	1968	1969	1970
(1)	(2)	(3)	(4)	(2)	(9)	3	(8)	(6)	(10)
International education	109,100	116,100	130,000	178,700	232,658	326,742	272,008	323,318	330,481
Educational exchange program	28,100	35,600	38,000 84,600	37,400 87,800	53,500 111,800	44,712 203,270	41,670	37,263	31,325 200,000
Other international education and training 19			7,400	9,200	10,183	41,944 36,816	43,641 46,697	39,981 56,074	39,254 59,902
Other	334,300	318,700	381,900	400,200	403,800	349,861	332,088	351,404	377,007
Agricultural extension service	59,300 2,100 7,000	63,000 2,500 8,300	79,400 5,200 2,900 10,600	85,400 5,100 3,500 11,000	90,700 15,200 3,600 12,800	92,824 3,304 6,341 15,199	90,030 6,737 3,662 6,000	96,978 8,575 3,751 7,000	100,575 12,852 4,880 7,000
Acquisition cost of personal property Fair value of real property	244,900 21,000	223,800 21,100	268,700 15,100	277,300 17,900	266,400 15,100	215,509 16,684	199,383 26,276	207,900	222,900

2 includes small amounts for National Defense Education Act Ioans to private elemen-Includes Office of Economic Opportunity and Indian education programs.

tary-secondary schools. Includes supplemental centers, school library materials, strengthening State education agencies, captioned films for the deaf, dissemination of information, school counseling and testing, and American Printing House for the Blind.

Includes Elementary and Secondary Education Act, title 1, handicapped children, dropout prevention, bilingual education, Kendall School for the Deaf, and development facilities in redevelopment areas,

Includes District of Columbia, Canal Zone, territories and denendencies, Cuban refugees, and payments in lieu of taxes by the Atomic Energy Commission and the Estimated secondary school portion. Tennessee Valley Authority.

program, model school for the deaf, and National Foundation on the Arts and the Includes elementary-secondary program planning and evaluation, model secondary school, educational exchange, National Science Foundation science education, Peace Corps, National Aeronautics and Space Administration elementary secondary school Humanities,

Date are from Federal Funds for Research, Development, and Other Scientific Activities, annual publication, National Science Foundation. Includes univarsityoperated research centers.

1970 estimates not available. Amounts are for 1969,

In ment and Training Act training and subsistence, and technical institute for the dest, Includes Office of Economic Opportunity programs for vocational-technical and continuing education, Social and Rehabilitation Service, work-incentive activities, Cuban 10 lirciudes vocational education except secondary school portion, Manpower Develop-

, n , n

refugee assistance, development facilities in redevelopment areas, and Indian educa-

12 mm.
Includes Social Security education and training, Public Health Service training for disease prevention and environmental control, training for law enforcement personnel, Atomic Energy Commission nuclear training courses, and Department of Housing and Urban Development Community development program,

¹³ includes. National institutes of Mental Health mental health training; Social and Rehabilitation Service rehabilitation training and rehabilitation facilities and services; Department of Commerce development planning, technical assistance, and research; and Small Business Administration training program. Similar information not evallable prior to 1967.

¹⁴includes National Defense Education Act student loans, insured student loan advances, loans for nurse training and health professions, Cuban refugee loans, and insured vocational education loans.
¹⁵includes Department of Housing and Urban Development college housing loans and

Office of Education college facilities loans,

Optic of Education college facilities loans,

Optic of Education of Federal Funds for Research, Development, and other Scientific

Activities, annual publication, National Science Foundation.

⁷Separate figuras are not provided for 1967 and subsequent years but are included in "Professional training, military."

18 noludes Library of Congress, Smithsonian Institution, General Services Administration, National Archives and Records Scrvice, National Agricultural Library, and Government Printing Office depository library and catalog and index activities.

19 Includes special foreign currency education research and training, Public Health Service National Center for Health Statistics, English language teaching in Poland, U.S. Information Agency education assistance, National Science Foundation international education activities, Atomic Energy Commission International education activities, and National Space Administration international education activities, and National Aeronautics and Space Administration international education activities, Concludes Department of Labor apprenticeship and training support, Department of Commerce State technical services program, and Department of the Interior mine safety training.

NOTE: Because of the exclusion of some programs and because data are based on Federal disbursements rather than the authority to spend, the figures since 1968 are not strictly comparable with those for earlier years.

SOURCE: Compiled by the National Center for Educational Statistics, Office of Education, u.S. Department of Health, Education, and Welfare, from information collected by the Bureau of the Budget for its report Special Analyses, Budget of the United States. Research data are from Federal Funds for Research, Devalopment, and Other Scientific Activities XVIII, National Science Foundation.

Table B-11.—Office of Education expenditures, by legislative program: Fiscal years 1960 to 1970

			[In thous	In thousands of dollars]	lars]				1		
Legislative program	1960	1961	1962	1963	1964	1965	1966	1967	1968	19691	19701
(1)	(2)	(3)	(4)	(2)	(9)	(2)	(8)	(6)	(10)	(11)	(12)
Total	\$459,936	527,654	\$547,610	\$635,602	\$676,735	\$876,591	\$459,936 \$527,654 \$547,610 \$635,602_\$676,735 \$876,591 \$2,032,664 \$3,098,089 \$3,629,408 \$3,472,588 \$3,867,676	680'860'83	\$3,629,408	\$3,472,588	3,867,676
Elementary and Secondary Education Act	811	1,095	1,247	1,521	1,648	1,712	816,982	1,252,211	1,335,590	1,295,074	1,410,386
Title I. Educationally deprived children		• •				• •	746,904 47,871	1,056,621 92,505	1,049,116 91,054	1,021,682 62,202	1,107,824 54,407
education centers					:	:	10,938	74,961	161,256	157,638	174,279
Inte V. Sureingreening State departments of education Title VI. Education for the handicapped Title VII. Bilingual education Title VIII. Dropout prevention	811	1,095	1,247	1,521	1,648	1,712	11,269	28,121	26,297 7,867	25,609 24,443 2,000 1,500	30,256 26,520 7,500 9,600
School assistance in federally affected areas	258,198	278,782	282,909	343,111	334,289	349,671	409,593	447,074	506,372	404,703	454,938
Maintenance and operation	174,850 83,348	207,749 71,033	226,419 56,490	276,869 36,242	283,688 50,601	311,413 38,258	353,851 55,742	399,858 47,216	470,887 35,485	370,474 34,229	399,953 54,985
Higher Education Act	:					22,569	35,232	245,046	365,884	403,469	533,287
Title I. University community services	:					:	3,926	14,774	9,897	9,134	9,500
College library resources Library improvement Library training								8,380 6,548 789	48,906 (³) 11,381	478 (³) 8,203	24,522 (³) 8,284
Acquisition and cataloging by Library of Congress				•	:	•	300	3,478	5,478	5,500	7,356

Title III. Strengthening developing institutions	4,919	19 22,428	28,000	29,600
Equal opportunity grants Work-study program Insured loans For a contract of the contract of	50,916 30,634 106,263 15,934	103,104 33 111,812 34 28,947	127,922 137,100 51,338	133,787 147,800 117,319
	362 12,521	16,019	19,000	24,243
Title VI. Undergraduate instructional assistance: Television and other equipment	20,523	3 5,415	10,651	12,200
Special programs for a state of the state of	01	1 2,497	4,600	4,200
Special services for disadvantaged—Upward Bound				1,500
Higher Education Facilities Act	526 276,762	2 461,965	384,895	429,401
and technical institutes	8 <u>5</u> ,	7 80,202 5 236,861 5 5,066	50,000 191,000 7,100	75,900 217,078 6,750
1,700	4,220 13,978 50,892 81,042	_	34,000 97,275	31,800 86,827
			3,920	10,670
Vocational education	326 249,954	4 255,224	242,473	261,080
Vocational Education Act of 1963	(⁴) 175,406	6 207,573	192,928	€.
See Touriotes at and of table.			•	

Table B-11.—Office of Education expenditures, by legislative program: Fiscal years 1960 to 1970—Continued

ars
=
0
ŏ
ğ
(r)
ā
_
8
3
ō
ᇎ
•
_

	19701	(12)	224,539 7,161 3,500 6,000	5,500	2,000	1,000	168,090	7	16,000 450 7,127	63,207	34,000 23,700
	19691	(11)	36,000 6,968 6,577			(₆)	74,163	066'89	3,173	62,236	32,675 24,500
i	1968	(10)	36,361 6,263 5,027			€	60,271	58,387	1,884	62,017	32,391 26,615
	1967	(6)	33,360 6,300 11,097			6,669	56,407	55,417	066	57,407	32,553 23,923
	1963	(8)	4114,211 4,185 10,072			2,547	42,147	42,147		40,915	25,000 15,915
	1965	(2)	⁵ 47,386 ⁴ 121,190 7,117 7,137 2,727			471	36,679	36,679		26,111	22,376 3,735
lars]	1964	(9)	547,386				13,969	13,969		7,443	7,443
In thousands of dollars]	1963	(2)	⁵ 48,032 7,144				14,237	14,237		7,345	7,345
[In thous	1962	(4)	⁵ 44,615 7,147				13,893	13,893		6,932	6,932
	1961	(3)	541,497 6,272				12,750	12,750		6,153	6,153
	1960	(2)	⁵ 38,021 7,158				8,683	8,683		950'9	6,056
	Legislative program	(1)	George-Barden and supplemental acts Smith-Hughes Work-study programs Cooperative Education	Vocational education	State advisory councils	development	Education professions development	Preschool, elementary, and secondary training programs	grains to States Encouragement of education cereer Higher education training programs	Library Services and Construction Act	Public library services

Interlibrary cooperation State institutional library service	• •	• •			• •			352 345	1,096	1,947 2,006	2,187 2,094	
Library services to projecting handicapped	:				:		:	234	740	1,108	1,226	
Educational improvement for the handicapped	380	266	1,191	2,587	4,982	15,327	15,366	26,937	33,088	34,823	44,996	
Teacher education and recruitment	308	814	943	2,337	2,466	12,823	10,448	21,968	24,162	22,986	25,629	
research and innovation	72		248	250	1,500	1,500	1,691	784	649	8,783 2,572 500	4,450 1,700	
National Defense Education Act	117,965	153,608	158,801	175,154	216,338	232,287	320,172	339,015	370,034	365,291	319,493	
Title II. Student loans and cancellations	40,326	57,491	74,532	91,841	111,729	135,538	177,394	181,000	182,825	185,878	163,550	
Title III. Instructional assistance: Grants and loans	49,848	56,218	39,510	34,010	56,131	50,615	76,175	69,438	85,916	72,205	53,810	
full overline teacher fellowships	4,620	11,451	17,313	19,604	19,680	20,695	31,974	52,591	60,650	74,968	71,000	
and testing	12,870	15,686	14,064	15,162	13,710	17,322	22,017	22,779	23,093	17,340	14,791	
Language and area centers, fellowships, and research	10,301	12,762	13,382	14,537	15,088	8,117	12,612	12,207	17,550	14,900	16,342	
Research and development	6,004	7,878	7,461	9,910	12,712	17,793	23,834	49,557	79,955	77,007	102,346	
Training and research	•				:	•	:	6,548	4,832	2,600	7,135	



Table B-11.—Office of Education expenditures, by legislative program: Fiscal years 1960 to 1970—Continued

			[In thousa	[In thousands of dollars]	larsj						
Legislative program	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	19701
(1)	(2)	(3)	(4	(2)	(9)	(2)	(8)	(6)	(10)	(11)	(12)
Construction								1,171	333	6,419	11,661
media research and dissemination	6,004	7,878	7,461	9,910	12,712	17,793	23,934	41,838	74,790	64,988	83,550
Major educational demonstration— Distric: of Columbia		•	:	•		•			•	200	3,600
Adult basic education	:		:	:	:	3,146	33,616	28,336	28,701	40,026	44,289
Civil rights activities				:	:	1,292	5,291	8,798	7,437	10,758	11,200
Land-grant colleges	5,052	5,052	10,744	14,500	14,500	14,500	14,500	14,500	14,500	21,791	14,720
Special foreign currency program—training, research and study	:	-	ဖ	20	138	120	200	1,199	857	800	2,024
Educational broadcasting facilities		:	:	:	1,962	3,130	4,663	8,222	6,737	7,575	7,852
Office of Education salaries and expenses, including technical services, planning and evaluation, and computer services	11,608	13,569	12,664	12,041	14,251	17,732	25,901	37,664	40,776	47,004	56,767
Expenditures from funds transferred to the Office of Education by other Federal agencies 10		·									
Manpower Development and Training Act:											

108,444

88,302

69,912

30,925 64,777 88,514

Training¹¹

5,457	3,867 6,589	1,402	21,753	14,052	3,464 125
5,820	2,872	12 1,000 2,272	1,856	¹² 10,730	123,144 12,296
4,753	2,501 9,497	12 _{1,114} 1,826	:	127,033	$\frac{12}{12}$ 2,970
3,510	4,940 2,871	12 _{1,237} 1,356		12 _{6,999}	122,442
2,039	2,068	148	:	2,797 12,722 12,6,999	1,358 12,481 12,442
992	2,597			7.797	1,358
	741 1,575			551 5,195	1,358 121,881 122,442
	421	: :	ent		
Supervision	Civil defense adult education program	International education exchange (foreign currency)	Appalachian Regional Development Act 13	Cuban Refugee Program: Education aid for Cuban children and adults	Loans for Cuban college students

¹ Estimated.	⁸ Includes assistance under the National Foundation on the Arts and the Humanities
² Includes title X. National Defense Education Act.	Act
Barinning in 1968 library improvement is included under research and development.	y Includes Fulbright-Hays Act.

Beginning in 1968, library improvement is included under research and development.

Program expenditures for the Vocational Education Act of 1963 and George-Barden is and supplemental acts were combined; sperate program amounts are not available.

Includes amounts for area vocational education, NDEA, title VIII. Absorbed into

other vocational education provisions after 1964.

Beginning in 1968, vocational research is included under research and demoinstrations.

Includes funds for teacher training institutes provided under the National Foundation SC on the Arts and the Humanities Act and NDEA institutes on subject and guidance.

9 Act.
10 Includes Fulbright-Hays Act.
11 Thouldes amounts for Area Redevelopment Act.
12 Figures are for "obligations."
13 Figures are for "obligations."
13 Figures are for "obligations."
13 Figures are for "obligations for Area Fedevelopment Act.
13 Figures are for "obligations."
13 Doss not include money transferred to the Office of Education consolidated working fund.

SOURCE: Compiled by the National Center for Educational Statistics and the Office of Administration, Office of Education, U.S. Department of Health, Education, and Welfare.